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Service Manual

ORDER NO.
RRV3605

DVD/CD RECEIVER

XV-DV363

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Regional restriction codes (Region No.)	Remarks
XV-DV363	WLXJ	AC 220 V to 240 V	3	
XV-DV363	NTXJ	AC 220 V	3	
XV-DV363	TDXJ/RB	AC 110 V to 240 V	2	
XV-DV363	YPWXJ	AC 240 V	4	

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
XV-DV370/KUCXJ	RRV3592	

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

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ⓒ**PIONEER CORPORATION 2007**

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

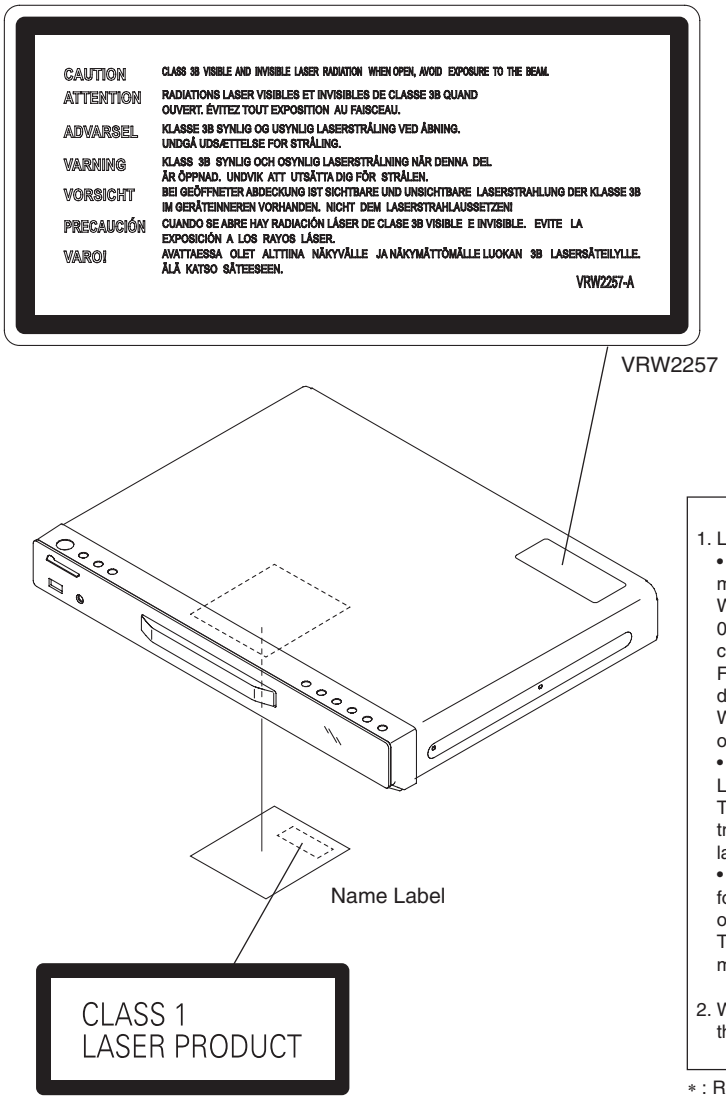
WARNING!

The laser component is capable of emitting radiation exceeding the limit for CLASS 1. A specially instructed person should do servicing operation of the apparatus.

LASER DIODE CHARACTERISTICS

FOR DVD : MAXIMUM OUTPUT POWER : 5 mW
WAVELENGTH : 650 nm
FOR CD : MAXIMUM OUTPUT POWER : 7 mW
WAVELENGTH : 780 nm

LABEL CHECK


CAUTION
CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO THE BEAM.
ATTENTION
RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B QUAND OUVERT. ÉVITEZ TOUT EXPOSITION AU FAISCEAU.
ADVARSEL
KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING
KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT UTSÄTTA DIG FÖR STRÅLEN.
VORSICHT
BEI GEÖFFNETER ABDECKUNG IST SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3B IM GERÄTEINNEREN VORHANDEN. NICHT DEM LASERSTRAHLAUSSETZEN!
PRECAUCIÓN
CUANDO SE ABRE HAY RADIACIÓN LÁSER DE CLASE 3B VISIBLE E INVISIBLE. EVITE LA EXPOSICIÓN A LOS RAYOS LÁSER.
VARO!
AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LUOKAN 3B LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VRW2257-A
VRW2257
Name Label
CLASS 1
LASER PRODUCT

Additional Laser Caution

1. Laser Interlock Mechanism
   • Loading switch (S101 on the LOAB Assy) is used for interlock mechanism of the laser.
   When this switch turned ON in SW2 (CLOSE) side (OPEN signal is 0 V and CLOSE signal is 3.5 V), a laser becomes the status which can completely oscillation.
   Furthermore, the laser completely oscillates in the disc judgment and disc playback.
   When player is power ON state and laser diode is not completely oscillating, 780 nm laser diode is always oscillating by half power.
   • Laser diode is driving with Q307 (650 nm LD) and Q308 (780 nm LD) on the DVD MAIN Assy.
   Therefore, when short-circuit between the emitter and collector of these transistors or the base voltage is supplied for transistors turn on, the laser oscillates. (failure mode)
   • In the test mode ∗ , there is the mode that the laser oscillates except for the disc judgment and playback. LD ON mode in the test mode oscillates with the laser forcibly.
   The interlock mechanism mentioned above becomes invalid in this mode.

2. When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to the laser beam.

∗ : Refer to page 25 on the service manual RRV3592.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω	→ 56 x 10^1 →	561	RD1/4PU 5 6 1 J
47kΩ	→ 47 x 10^3 →	473	RD1/4PU 4 7 3 J
0.5Ω	→ R50		RN2H R 5 0 K
1Ω	→ 1R0		RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	→ 562 x 10^1 →	5621	RN1/4PC 5 6 2 1 F

CONTRAST TABLE

XV-DV363/WLXJ, /NTXJ, /TDXJ/RB, /YPWXJ and XV-DV370/KUCXJ are constructed the same except for the following:

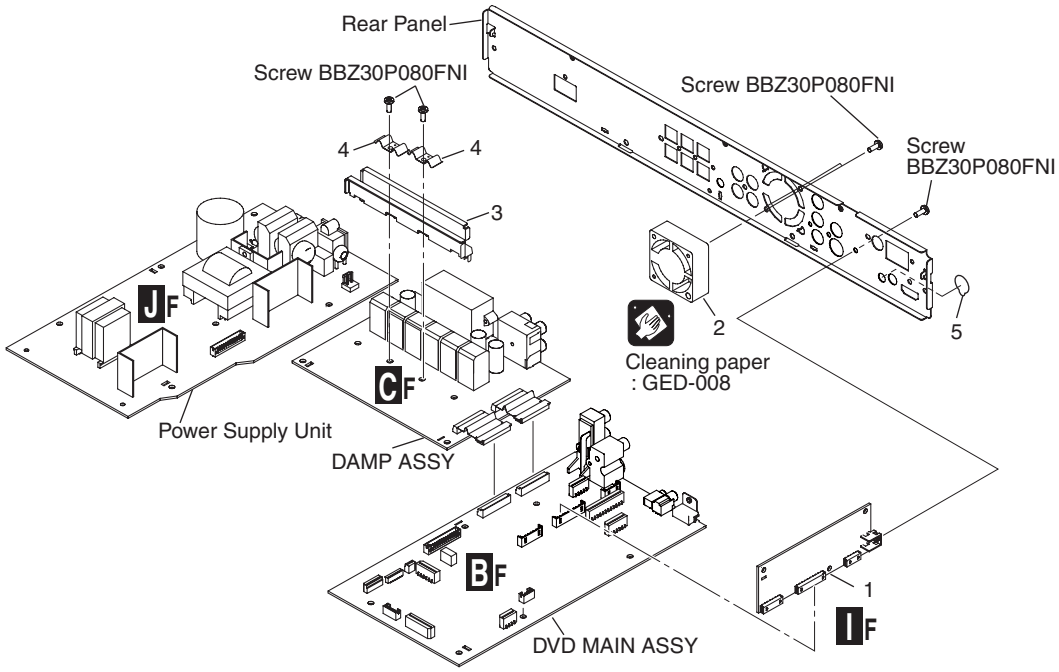
Mark	No.	Symbol and Description	XV-DV370 /KUCXJ	XV-DV363 /WLXJ	XV-DV363 /NTXJ	XV-DV363 /TDXJ/RB	XV-DV363 /YPWXJ	Remarks
		PCB ASSEMBLIES						
	P51-1	DAMP Assy	XWK3318	XWK3321	XWK3321	XWK3321	XWK3321	
	P51-2	DVD MAIN Assy	XWM3343	XWM3357	XWM3358	XWM3360	XWM3366	
⚠	P51-9	POWER SUPPLY Unit	XWR3014	XWR3013	XWR3013	XWR3013	XWR3013	*1
	P51-10	FM/AM TUNER Unit	AXX7250	AXX7251	AXX7251	AXX7251	AXX7251	*1
		DSP Assy	Not used	AWX8706	AWX8706	AWX8706	AWX8706	No. 1
		PACKING SECTION						
⚠	P49-1	Power Cord	ADG7021	ADG1127	ADG1127	ADG1127	ADG7099	
	P49-5	Remote Control	XXD3121	XXD3122	XXD3122	XXD3122	XXD3122	
NSP	P49-8	Warranty Card	ARY7045	Not used	XRY3004	Not used	ARY7047	
	P49-10	Operating Instructions (English/French)	XRE3158	Not used	Not used	Not used	Not used	
		Operating Instructions (English/Trad-Chinese)	Not used	XRE3161	Not used	Not used	Not used	
		Operating Instructions (Thai)	Not used	Not used	XRC3298	Not used	Not used	
		Operating Instructions (Arabic)	Not used	Not used	Not used	XRC3299	Not used	
		Operating Instructions (English)	Not used	Not used	Not used	XRB3079	XRB3087	
	P49-14	Setup Guide (English/French)	XRE3146	Not used	Not used	Not used	Not used	
		Setup Guide (English/Trad-Chinese)	Not used	XRE3153	Not used	Not used	Not used	
		Setup Guide (Thai)	Not used	Not used	XRC3288	Not used	Not used	
		Setup Guide (English/Arabic)	Not used	Not used	Not used	XRE3154	Not used	
		Setup Guide (English)	Not used	Not used	Not used	Not used	XRB3085	
	P49-22	Packing Case	XHD3706	XHD3720	XHD3721	XHD3723	XHD3722	
		Microphone (for Auto MCACC setup)	Not used	APM7008	APM7008	APM7008	APM7008	
NSP		Polyethylene Bag (For Warranty Card)	Not used	Not used	AHG7099	Not used	Not used	
NSP		Service Map (Thai)	Not used	Not used	XRY3005	Not used	Not used	
		EXTERIOR SECTION						
	P51-17	Connector Assy (J1902)	PG13KK-F22	PG14KK-F22	PG14KK-F22	PG14KK-F22	PG14KK-F22	
	P51-23	GND Plate W5.1	ABH7241	Not used	Not used	Not used	Not used	
	P51-25	Rear Panel	XNC3499	XNC3502	XNC3515	XNC3517	XNC3516	
	P51-27	Front Panel Assy	XXG3333	XXG3338	XXG3338	XXG3338	XXG3338	
NSP	P51-31	Front Panel	XMB3273	XMB3277	XMB3277	XMB3277	XMB3277	

Mark	No.	Symbol and Description	XV-DV370 /KUCXJ	XV-DV363 /WLXJ	XV-DV363 /NTXJ	XV-DV363 /TDXJ/RB	XV-DV363 /YPWXJ	Remarks
	P51-35	Bonnet (for service)	XZN3192	XZN3193	XZN3193	XZN3193	XZN3193	
NSP	P51-38	Name Label	XAL3261	XAL3266	XAL3266	XAL3266	XAL3266	
NSP	P51-40	Energy Star Label	AAX8022	Not used	Not used	Not used	AAX8022	
		DC Fan Motor	Not used	VXM1121	VXM1121	VXM1121	VXM1121	No. 2
		Heat Sink	Not used	ANH7190	ANH7190	ANH7190	ANH7190	No. 3
		Spring Plate	Not used	ABH7244	ABH7244	ABH7244	ABH7244	No. 4
		Control Label	Not used	XAX3620	XAX3620	XAX3620	XAX3620	No. 5
		Laser Caution	Not used	VRW2257	VRW2257	VRW2257	VRW2257	*2

Notes : The numbers in the remarks column correspond to the numbers on the “EXPLODED VIEWS”.
For PCB ASSEMBLIES, Refer to “PCB PARTS LIST”, “2. SCHEMATIC DIAGRAM” and “3. PCB CONNECTION DIAGRAM".
*1 : FM/AM TUNER Unit has no service parts. POWER SUPPLY Unit has no service parts.
*2 : Refer to "LABEL CHECK".

EXPLODED VIEWS

EXTERIOR SECTION



PCB PARTS LIST

CONTRAST OF PCB ASSEMBLIES

B F DVD MAIN ASSY

XWM3358, XWM3360, XWM3366 and XWM3357 are constructed the same except for the following:

Mark	Symbol and Description	XWM3357	XWM3358	XWM3360	XWM3366	Remarks
	R5513	RD1/4PU473J	RD1/4PU393J	RD1/4PU104J	RD1/4PU223J	
	R5515	Not used	RD1/4PU223J	RD1/4PU103J	RD1/4PU473J	

PCB PARTS LIST

B F DVD MAIN ASSY (XWM3357)

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 101	(A,41,32) 6CH DRIVER IC	BD7995EFS
	IC 201	(A,77,112) DVD IC	MT1389FE/H-L
	IC 202	(A,110,99) IC	K4S641632K-UC75
	IC 203	(A,72,77) FLASH ROM	AYW7154
	IC	FLASH MEMORY IC	S29AL016D70TFI010
	IC 204	(A,93,79) EEPROM	S-24CS64A0I
	IC 401	(A,103,145) DVD VIDEO AMP IC	MM1758XF
⚠	IC 771	(A,34,50) LOAD SWITCHING	AAT4618IGV-0.5-1
⚠	IC 781	(A,51,49) REGULATOR IC	NJM2845DL1-05
	IC 931	(A,102,195) HDMI IC	MT1392E/C-L
⚠	IC 981	(A,84,160) REGULATOR IC	NJM2872BF05
⚠	IC 1101	(A,20,110) REGULATOR IC	NJM2846DL3-18
	IC 3001	(A,41,151) IC	TC4052BFN
⚠	IC 3002	(A,16,147) REGULATOR IC	NJM2872BF25
	IC 3003	(A,23,145) AD CONVERTER IC	AK5358AET
	IC 3901	(A,83,200) DUAL OP-AMP	NJM4565MD
	IC 5501	(A,83,44) SYSTEM CONTROL MICON	PDC154A
	IC 5502	(A,111,37) EEPROM	S-93C46BD0I-J8T1
	Q 304	(A,13,35) TRANSISTOR	2SC4154
	Q 305	(A,14,41) NMOS FET TRANSISTOR	UM5K1N
	Q 307	(A,11,61) CHIP TRANSISTOR	HN1A01F
	Q 308	(A,16,61) CHIP TRANSISTOR	HN1A01F
	Q 933	(A,114,212) TRANSISTOR	RT1N144M
	Q 934	(A,115,216) TRANSISTOR	RT3P22M
	Q 1201	(A,24,101) TRANSISTOR	RT1N141M-11
	Q 1202	(A,30,106) CHIP TRANSISTOR	RSR015P03
	Q 1301	(A,13,102) TRANSISTOR(SC-70)	2SA1602A
	Q 1302	(A,17,102) TRANSISTOR	2SA1577
	Q 1303	(A,13,96) TRANSISTOR	2SC4154
	Q 1304	(A,18,92) TRANSISTOR	2SC4154
	Q 1402	(A,110,25) TRANSISTOR(SC-70)	2SA1602A
	Q 1413	(A,106,21) TRANSISTOR	RT1N241M
	Q 3005	(A,42,140) CHIP TRANSISTOR	HN1A01FU
	Q 3006	(A,8,200) TRANSISTOR	RT1N241M
	Q 3951	(A,46,64) TRANSISTOR	RT1N241M
	Q 5525	(A,62,59) DIGITAL TR(SC-70)	RT1N431M
	Q 5531	(A,97,11) TRANSISTOR	RT3N22M
	Q 5532	(A,97,7) TRANSISTOR	RT1N241M
	Q 5533	(A,91,5) DIGITAL TR(SC-70)	RT1P241M
	Q 5601	(A,102,68) TRANSISTOR(SC-70)	2SA1602A
	Q 5602	(A,93,68) CHIP TRANSISTOR	HN1C01FU
	Q 5703	(A,74,187) CHIP TRANSISTOR	HN1C01FU
	Q 5931	(A,86,211) TRANSISTOR	RT1N241M
	Q 5932	(A,76,211) TRANSISTOR	RT3N22M
	Q 5934	(A,83,211) TRANSISTOR(SC-70)	2SA1602A
	Q 5935	(A,71,213) TRANSISTOR(SC-70)	2SA1602A
	Q 5936	(A,78,215) DIGITAL TR(SC-70)	RT1P241M
	Q 5941	(A,21,192) TRANSISTOR	RT1N241M
	D 802	(A,61,24) DIODE	1SS352
	D 933	(A,112,204) DIODE	UDZS5R1(B)
	D 1201	(A,27,103) DIODE	1SS352
	D 1403	(A,110,30) DIODE	MC2846-11
	D 1416	(A,98,23) DIODE	1SS352
	D 1417	(A,96,23) DIODE	1SS352
	D 3901	(A,82,204) DIODE	UDZS5R1(B)
	D 3902	(A,59,163) DIODE	UDZS3R9(B)
	D 3903	(A,58,156) DIODE	UDZS3R9(B)
	D 5601	(A,101,66) DIODE	1SS352
	D 5931	(A,85,218) DIODE	1SS352
	D 5933	(A,74,218) DIODE	1SS352
	D 5936	(A,79,212) DIODE	1SS352
	D 5941	(A,21,195) DIODE	1SS352
	D 5942	(A,25,188) DIODE	1SS352
	L 421	(A,7,215) INDUCTOR	CTF1389
	L 422	(A,26,209) INDUCTOR	CTF1389
	L 761	(A,51,98) COIL	VTH1047
	L 772	(A,39,50) CHIP SOLID INDUCTOR	ATL7002
	L 931	(A,95,171) CHIP BEADS	ATL7010
	L 932	(A,97,216) COIL	ATH7022
	L 933	(A,100,216) COIL	ATH7022
	L 934	(A,102,216) COIL	ATH7022
	L 935	(A,105,216) COIL	ATH7022
	L 936	(A,93,171) CHIP BEADS	ATL7010
	L 937	(A,100,169) CHIP BEADS	ATL7010
	L 1305	(A,16,105) INDUCTOR	CTF1395
	L 1501	(A,58,42) AXIAL INDUCTOR	LAU220J
	L 3901	(A,90,215) INDUCTOR	CTF1379
	L 3951	(A,40,65) INDUCTOR	CTF1346
	L 3952	(A,38,65) INDUCTOR	CTF1346
	L 5931	(A,85,221) CHIP SOLID INDUCTOR	QTL1013
	L 5932	(A,81,217) CHIP SOLID INDUCTOR	QTL1013
	L 5933	(A,75,220) CHIP SOLID INDUCTOR	QTL1013
	L 5934	(A,73,215) CHIP SOLID INDUCTOR	QTL1013
	JA 401	(A,38,232) JACK	VKB1178
	JA 402	(A,20,232) JACK	XKB3061
	JA 931	HDMI CONNECTOR	AKP1318
	JA 3901	(A,90,230) JACK	RKN1004
	JA 5931	(A,80,231) MINI JACK(4P) /W SW	XKN3015
	X 201	(A,75,140) CRYSTAL RESONATOR (27 MHz)	VSS1168
	X 5501	(A,64,44) CERAMIC RESONATOR (10 MHz)	ASS7034
	CN 101	(A,21,41) CONNECTOR	VKN2045

Mark	No.	Description	Part No.
	CN 102	(A,19,18) 12P CONNECTOR	VKN1243
	CN 103	(A,20,57) 4P CONNECTOR	VKN1235
	CN 104	(A,46,10) CONNECTOR POST	B5B-PH
	CN 1002	(A,9,105) CONNECTOR(KR)	B14B-PH
	CN 3001	(A,8,157) 19P RECEPTACLE	AKP7199
	CN 3002	(A,8,193) 19P RECEPTACLE	AKP7199
	CN 5531	(A,54,184) 19P PLUG	XKM3005
	CN 5532	(A,54,144) 13P PLUG	XKM3004
	CN 5533	(A,54,217) 9P PLUG	XKM3008
	CN 5601	(A,26,56) CONNECTOR	CKS3380
	CN 5602	(A,85,12) CONNECTOR	CKS3378
	CN 5701	(A,86,179) CONNECTOR	CKS3376
	2	PCB BINDER	VEF1040

RESISTORS

	R 131	(A,28,24)	RS1/10S4R7J
	R 132	(A,28,26)	RS1/10S4R7J
	R 133	(A,28,28)	RS1/10S4R7J
	R 134	(A,28,30)	RS1/10S4R7J
	R 135	(A,28,32)	RS1/10S4R7J
	R 136	(A,28,34)	RS1/10S4R7J
	R 151	(A,51,37)	RS1/10S1R0J
	R 152	(A,51,41)	RS1/10S1R8J
	R 153	(A,49,37)	RS1/10S1R0J
	R 154	(A,49,41)	RS1/10S1R8J
	R 201	(A,50,75)	RS1/16S152J
	R 202	(A,53,75)	RS1/16S223J
	R 204	(A,53,79)	RS1/16S223J
	R 205	(A,56,79)	RS1/16S513J
	R 206	(A,56,75)	RS1/16S513J
	R 212	(A,56,101)	RS1/16S103J
	R 213	(A,56,102)	RS1/16S103J
	R 215	(A,80,86)	RS1/16S332J
	R 216	(A,79,89)	RS1/16S472J
	R 218	(A,86,81)	RS1/16S103J
	R 219	(A,86,82)	RS1/16S103J
	R 221	(A,76,89)	RS1/16S330J
	R 223	(A,91,87)	RS1/16S330J
	R 224	(A,73,89)	RS1/16S330J
	R 225	(A,99,99) CHIP RESISTOR ARRAY	RAB4C330J
	R 226	(A,99,102)	RS1/16S0R0J
	R 227	(A,99,103)	RS1/16S330J
	R 228	(A,99,105)	RS1/16S330J
	R 229	(A,99,106)	RS1/16S330J
	R 230	(A,86,134)	RS1/16S103J
	R 233	(A,68,92)	RS1/16S0R0J
	R 234	(A,79,86)	RS1/16S330J
	R 235	(A,77,86)	RS1/16S472J
	R 237	(A,77,89)	RS1/16S330J
	R 240	(A,88,147)	RS1/16S0R0J
	R 243	(A,81,134)	RS1/16S100J
	R 247	(A,88,156)	RS1/16S0R0J
	R 248	(A,81,138)	RS1/16S330J
	R 251	(A,70,134)	RS1/16S104J
	R 252	(A,72,130)	RS1/16S0R0J
	R 253	(A,73,134)	RS1/16S681J
	R 254	(A,67,133)	RS1/16S754J
	R 255	(A,61,134)	RS1/16S104J
	R 256	(A,57,131)	RS1/16S153J
	R 257	(A,74,130)	RS1/16S0R0J
	R 258	(A,80,89)	RS1/16S330J
	R 259	(A,82,87)	RS1/16S330J
	R 260	(A,83,87)	RS1/16S330J
	R 261	(A,95,87)	RS1/16S330J
	R 262	(A,85,86)	RS1/16S330J
	R 263	(A,86,86)	RS1/16S330J
	R 264	(A,110,122) CHIP RESISTOR ARRAY	RAB4C330J
	R 265	(A,104,118) CHIP RESISTOR ARRAY	RAB4C330J
	R 266	(A,99,115)	RS1/16S0R0J
	R 267	(A,110,115) CHIP RESISTOR ARRAY	RAB4C330J
	R 269	(A,82,142)	RS1/16S0R0J
	R 271	(A,104,113) CHIP RESISTOR ARRAY	RAB4C330J
	R 272	(A,96,87)	RS1/16S333J
	R 279	(A,89,134) CHIP RESISTOR	RS1/16S2201F
	R 281	(A,107,84)	RS1/10S0R0J
	R 284	(A,60,80)	RS1/16S103J
	R 291	(A,72,86)	RS1/16S332J
	R 292	(A,73,85)	RS1/16S682J
	R 293	(A,93,84)	RS1/16S332J
	R 294	(A,90,84)	RS1/16S682J
	R 313	(A,16,39)	RS1/16S104J
	R 314	(A,15,37)	RS1/16S103J
	R 315	(A,12,37)	RS1/16S103J
	R 318	(A,12,39)	RS1/16S104J
	R 321	(A,19,61)	RS1/16S4R7J
	R 322	(A,14,61)	RS1/16S4R7J
	R 325	(A,10,57)	RS1/16S4R7J
	R 326	(A,15,57)	RS1/16S4R7J
	R 402	(A,45,200)	RS1/16S103J
	R 406	(A,109,137)	RS1/16S103J
	R 411	(A,96,131)	RS1/16S1500F
	R 412	(A,100,131)	RS1/16S1500F
	R 413	(A,93,130)	RS1/16S1500F
	R 414	(A,103,131)	RS1/16S1500F
	R 415	(A,107,130)	RS1/16S1500F
	R 416	(A,110,130)	RS1/16S1500F
	R 421	(A,39,211)	RS1/10S75R0F
	R 422	(A,43,211)	RS1/10S75R0F
	R 423	(A,33,211)	RS1/10S75R0F
	R 424	(A,19,209)	RS1/10S75R0F
	R 425	(A,10,215)	RS1/10S75R0F
	R 426	(A,29,210)	RS1/10S75R0F
	R 767	(A,51,104)	RS1/16S153J
	R 768	(A,52,101)	RS1/16S153J
	R 769	(A,51,103)	RS1/16S330J
	R 770	(A,52,100)	RS1/16S330J
	R 771	(A,37,50)	RS1/16S221J
	R 772	(A,31,48)	RS1/16S104J
	R 801	(A,61,28)	RS1/16S472J
	R 906	(A,91,194)	RS1/16S100J
	R 911	(A,91,191)	RS1/16S100J
	R 914	(A,114,184)	RS1/16S103J
	R 915	(A,116,191)	RS1/16S102J
	R 931	(A,102,184)	RS1/16S0R0J
	R 933	(A,92,199)	RS1/16S561J
	R 934	(A,92,203) CHIP RESISTOR	RS1/16S5100F
	R 959	(A,117,214)	RS1/16S472J
	R 960	(A,117,217)	RS1/16S272J
	R 961	(A,113,219)	RS1/16S472J
	R 962	(A,115,219)	RS1/16S272J

Mark	No.	Description	Part No.
R	966	(A,110,206)	RS1/16S473J
R	970	(A,112,209)	RS1/16S102J
R	973	(A,109,209)	RS1/16S0R0J
R	1101	(A,24,105)	RS1/16S221J
R	1201	(A,31,102)	RS1/16S103J
R	1202	(A,29,103)	RS1/16S474J
R	1301	(A,13,100)	RS1/16S473J
R	1302	(A,13,98)	RS1/16S392J
R	1303	(A,17,99)	RS1/16S473J
R	1304	(A,16,92)	RS1/10S561J
R	1306	(A,21,95)	RS1/16S103J
R	1307	(A,13,92)	RS1/16S472J
R	1401	(A,114,27)	RS1/16S392J
R	1402	(A,114,30)	RS1/16S332J
R	1403	(A,112,27)	RS1/16S473J
R	1404	(A,112,30)	RS1/16S393J
R	1415	(A,100,22)	RS1/16S182J
R	3006	(A,8,198)	RS1/16S103J
R	3009	(A,49,153)	RS1/16S102J
R	3010	(A,34,153)	RS1/16S102J
R	3011	(A,47,159)	RS1/16S223J
R	3012	(A,34,155)	RS1/16S223J
R	3013	(A,49,156)	RS1/16S223J
R	3014	(A,34,156)	RS1/16S223J
R	3017	(A,48,150)	RS1/16S223J
R	3018	(A,34,150)	RS1/16S223J
R	3019	(A,48,152)	RS1/16S473J
R	3020	(A,37,157)	RS1/16S473J
R	3021	(A,45,140)	RS1/16S224J
R	3022	(A,37,143)	RS1/16S224J
R	3023	(A,37,138)	RS1/16S102J
R	3024	(A,39,143)	RS1/16S102J
R	3027	(A,49,155)	RS1/16S473J
R	3028	(A,16,150)	RS1/16S224J
R	3039	(A,36,138)	RS1/16S153J
R	3040	(A,42,144)	RS1/16S153J
R	3048	(A,17,137)	RS1/16S182J
R	3049	(A,22,139)	RAB4C101J
R	3052	(A,22,134)	RS1/16S0R0J
R	3058	(A,29,150)	RS1/16S0R0J
R	3059	(A,27,143)	RS1/16S0R0J
R	3073	(A,18,139)	RS1/16S332J
R	3081	(A,10,164)	RS1/16S105J
R	3082	(A,10,163)	RS1/16S105J
R	3083	(A,35,128)	RS1/16S0R0J
R	3084	(A,47,129)	RS1/16S0R0J
R	3085	(A,35,123)	RS1/16S0R0J
R	3090	(A,31,130)	RS1/16S0R0J
R	3902	(A,85,204)	RS1/16S104J
R	3903	(A,78,204)	RS1/16S392J
R	3905	(A,76,201)	RS1/16S101J
R	3906	(A,78,201)	RS1/16S333J
R	3907	(A,88,198)	RS1/16S333J
R	3908	(A,77,203)	RS1/16S472J
R	3910	(A,89,213)	RS1/16S682J
R	3911	(A,89,201)	RS1/16S101J
R	3913	(A,92,214)	RS1/16S104J
R	3914	(A,90,203)	RS1/16S472J
R	3915	(A,70,200)	RS1/16S473J
R	3951	(A,43,65)	RS1/16S473J
R	3952	(A,35,65)	RS1/16S473J
R	3955	(A,50,63)	RS1/16S182J
R	5501	(A,67,58)	RAB4C221J
R	5505	(A,67,55)	RS1/16S221J
R	5507	(A,67,53)	RS1/16S221J
R	5508	(A,62,55)	RS1/16S222J
R	5509	(A,67,61)	RS1/16S0R0J
R	5510	(A,62,53)	RS1/16S473J
R	5513	(A,57,25)	RD1/4PU473J
R	5514	(A,57,22)	RD1/4PU683J
R	5516	(A,52,20)	RD1/4PU153J
R	5517	(A,66,35)	RAB4C221J
R	5518	(A,62,35)	RS1/16S105J
R	5519	(A,62,32)	RS1/16S103J
R	5521	(A,66,33)	RS1/16S221J
R	5522	(A,67,30)	RAB4C221J
R	5527	(A,67,25)	RAB4C221J
R	5528	(A,97,13)	RS1/16S472J
R	5531	(A,71,25)	RS1/16S223J
R	5536	(A,79,25)	RS1/16S221J
R	5537	(A,80,25)	RS1/16S221J
R	5538	(A,82,25)	RS1/16S221J
R	5541	(A,87,25)	RAB4C221J
R	5542	(A,92,25)	RAB4C221J
R	5546	(A,84,22)	RS1/16S103J
R	5547	(A,84,21)	RS1/16S103J
R	5548	(A,100,29)	RAB4C221J
R	5557	(A,100,36)	RAB4C221J
R	5558	(A,106,40)	RS1/16S473J
R	5559	(A,112,41)	RS1/16S473J
R	5562	(A,100,39)	RS1/16S221J
R	5563	(A,104,46)	RS1/16S103J
R	5566	(A,100,45)	RAB4C221J
R	5569	(A,66,39)	RS1/16S221J
R	5570	(A,100,51)	RAB4C221J
R	5574	(A,95,64)	RS1/16S104J
R	5577	(A,100,60)	RAB4C221J
R	5581	(A,98,64)	RS1/16S221J
R	5582	(A,96,64)	RS1/16S221J
R	5583	(A,92,64)	RS1/16S103J
R	5584	(A,90,64)	RS1/16S221J
R	5590	(A,80,63)	RAB4C221J
R	5597	(A,82,63)	RS1/16S153J
R	5598	(A,71,64)	RAB4C221J
R	5601	(A,98,67)	RS1/16S223J
R	5602	(A,98,69)	RS1/16S223J
R	5603	(A,89,69)	RS1/16S223J
R	5604	(A,104,66)	RS1/16S151J
R	5605	(A,89,67)	RS1/16S102J
R	5606	(A,101,64)	RS1/16S223J
R	5712	(A,78,184)	RS1/16S0R0J
R	5713	(A,78,190)	RS1/16S0R0J
R	5931	(A,86,215)	RS1/16S182J
R	5933	(A,71,218)	RS1/16S104J
R	5934	(A,70,211)	RS1/16S102J
R	5935	(A,68,213)	RS1/16S103J
R	5936	(A,83,215)	RS1/16S182J
R	5937	(A,81,212)	RS1/16S473J
R	5938	(A,81,214)	RS1/16S272J
R	5939	(A,86,214)	RS1/16S332J

Mark	No.		Description	Part No.
R	5940	(A,75,214)		RS1/16S101J
R	5942	(A,71,216)		RS1/16S104J
R	5946	(A,24,195)		RS1/16S472J
R	5947	(A,27,188)		RS1/16S102J
R	5948	(A,30,189)		RS1/16S0R0J
R	9402	(A,16,198)		RS1/16S0R0J

CAPACITORS

C	101	(A,40,18)		CEAT101M10
C	102	(A,40,22)		CKSRYB105K10
C	103	(A,48,29)		CKSRYB105K10
C	104	(A,49,34)		CKSRYB105K10
C	121	(A,48,32)		CKSRYB105K6R3
C	131	(A,33,41)		CKSRYB104K16
C	140	(A,16,15)		CKSRYB105K6R3
C	144	(A,32,32)		CKSRYB222K50
C	145	(A,34,31)		CKSRYB222K50
C	146	(A,34,34)		CKSRYB222K50
C	151	(A,49,26)		CKSRYB103K50
C	152	(A,49,23)		CKSRYB103K50
C	153	(A,46,21)		CKSRYB103K50
C	161	(A,32,38)		CKSRYB102K50
C	200	(A,58,111)		CKSRYB104K16
C	201	(A,59,93)		CEAT221M6R3
C	202	(A,45,112)		CEAT221M6R3
C	203	(A,46,100)	ELECT. CAPACITOR	CEAT470M35
C	204	(A,54,113)		CKSRYB104K16
C	205	(A,54,111)		CKSRYB104K16
C	206	(A,52,108)	ELECT. CAPACITOR	CEAT470M35
C	207	(A,55,116)		CKSRYB104K16
C	208	(A,55,75)		CKSRYB222K50
C	209	(A,52,75)		CKSRYB104K16
C	210	(A,52,79)		CKSRYB222K50
C	211	(A,55,79)		CCSRCH101J50
C	212	(A,58,75)		CCSRCH101J50
C	213	(A,54,115)		CKSRYB104K16
C	215	(A,46,106)	ELECT. CAPACITOR	CEAT470M35
C	216	(A,58,105)		CKSRYB104K16
C	217	(A,59,100)		CKSRYB104K16
C	218	(A,58,108)		CKSRYB104K16
C	219	(A,58,109)		CKSRYB562K50
C	220	(A,63,94)		CKSRYB104K16
C	223	(A,63,146)		CEAT100M50
C	224	(A,75,93)		CKSRYB104K16
C	225	(A,76,93)		CKSRYB104K16
C	226	(A,88,87)		CKSRYB103K50
C	227	(A,96,89)		CCSRCH221J50
C	228	(A,78,134)		CKSRYB104K16
C	229	(A,89,92)		CKSRYB104K16
C	230	(A,94,99)		CKSRYB104K16
C	231	(A,95,104)		CKSRYB104K16
C	232	(A,95,106)		CKSRYB104K16
C	233	(A,96,111)		CKSRYB104K16
C	234	(A,95,113)		CKSRYB104K16
C	235	(A,95,116)		CKSRYB104K16
C	236	(A,95,118)		CKSRYB104K16
C	237	(A,103,126)		CEAT221M6R3
C	238	(A,75,130)		CKSRYB104K16
C	239	(A,81,131)		CKSRYB104K16

Mark	No.		Description	Part No.
C	241	(A,69,147)		CEAT100M50
C	242	(A,75,147)		CEAT100M50
C	243	(A,94,127)		CKSRYB104K16
C	244	(A,95,123)		CKSRYB104K16
C	245	(A,88,131)		CKSRYB105K6R3
C	246	(A,87,130)		CKSRYB104K16
C	247	(A,84,131)		CKSRYB104K16
C	248	(A,84,134)		CKSRYB104K16
C	250	(A,102,122)		CKSRYB104K16
C	251	(A,70,135)		CCSRCH9R0D50
C	252	(A,74,135)		CCSRCH120J50
C	254	(A,67,135)		CKSRYB102K50
C	255	(A,60,137)		CKSRYB474K10
C	256	(A,64,140)		CEAT100M50
C	258	(A,64,135)		CKSRYB473K25
C	259	(A,64,133)		CKSRYB473K25
C	260	(A,70,131)		CKSRYB104K16
C	261	(A,76,131)		CKSRYB104K16
C	262	(A,81,148)		CEAT100M50
C	264	(A,66,131)		CKSRYB104K16
C	265	(A,57,135)		CCSRCH220J50
C	266	(A,68,131)		CKSRYB104K16
C	267	(A,58,135)		CKSRYB102K50
C	268	(A,62,131)		CKSRYB104K16
C	269	(A,60,131)		CKSRYB333K16
C	271	(A,64,130)		CKSRYB104K16
C	272	(A,59,131)		CKSRYB104K16
C	273	(A,64,131)		CKSRYB104K16
C	281	(A,113,85)		CEAT221M6R3
C	282	(A,109,84)		CKSRYB105K6R3
C	283	(A,117,109)		CKSRYB104K16
C	284	(A,102,98)		CKSRYB104K16
C	285	(A,101,93)		CKSRYB104K16
C	286	(A,117,90)		CKSRYB104K16
C	287	(A,117,94)		CKSRYB104K16
C	288	(A,117,99)		CKSRYB104K16
C	289	(A,86,77)		CKSRYB105K6R3
C	290	(A,93,75)		CKSRYB104K16
C	296	(A,84,77)		CKSRYB102K50
C	309	(A,17,66)	ELECT. CAPACITOR	CEAT470M35
C	310	(A,23,66)	ELECT. CAPACITOR	CEAT470M35
C	343	(A,58,124)		CKSRYB105K6R3
C	344	(A,48,117)		CKSRYB105K6R3
C	345	(A,48,118)		CKSRYB105K6R3
C	346	(A,55,122)		CKSRYB105K6R3
C	347	(A,55,120)		CKSRYB105K6R3
C	371	(A,15,44)		CKSRYB104K16
C	372	(A,26,46)		CKSRYB104K16
C	374	(A,10,49)	ELECTR.CAPACITOR	CEAT101M6R3
C	401	(A,92,151)		CEAT101M16
C	402	(A,91,147)		CKSRYB104K16
C	404	(A,92,144)		CEAT101M16
C	405	(A,103,138)		CKSRYB104K16
C	406	(A,45,202)		CKSRYB104K16
C	411	(A,97,137)		CKSRYB104K16
C	412	(A,101,136)		CKSRYB105K6R3
C	413	(A,95,137)		CKSRYB105K6R3
C	414	(A,104,136)		CKSRYB105K6R3
C	415	(A,107,135)		CKSRYB104K16
C	416	(A,111,135)		CKSRYB104K16

Mark	No.	Description	Part No.
C	427	(A,41,186) ELECT. CAPACITOR	CEAT102M6R3
C	428	(A,41,177) ELECT. CAPACITOR	CEAT102M6R3
C	429	(A,18,203) ELECT. CAPACITOR	CEAT102M6R3
C	430	(A,10,210)	CEAT471M6R3
C	431	(A,25,204)	CEAT471M6R3
C	771	(A,36,53)	CKSQYB105K16
C	773	(A,31,51)	CKSRYB104K16
C	781	(A,42,45)	CEAT100M50
C	782	(A,48,58)	CKSQYB225K10
C	931	(A,96,186)	CKSRYB104K16
C	932	(A,97,180) ELECT. CAPACITOR	CEAT470M35
C	933	(A,94,185)	CKSRYB104K16
C	934	(A,94,187)	CKSRYB102K50
C	935	(A,96,166)	CKSRYB104K16
C	936	(A,113,189)	CKSRYB104K16
C	942	(A,102,185)	CKSRYB104K16
C	943	(A,108,185)	CKSRYB104K16
C	944	(A,92,201)	CKSRYB104K16
C	945	(A,110,202)	CKSRYB562K50
C	946	(A,108,204)	CKSRYB104K16
C	951	(A,109,210)	CKSRYB104K16
C	952	(A,109,218)	CEAT100M50
C	953	(A,91,180) ELECT. CAPACITOR	CEAT470M35
C	954	(A,91,185)	CKSRYB104K16
C	955	(A,94,166)	CKSRYB104K16
C	956	(A,91,187)	CKSRYB102K50
C	982	(A,84,164)	CKSQYB225K10
C	983	(A,80,161)	CKSQYB105K16
C	984	(A,84,157)	CKSRYB104K16
C	985	(A,100,165)	CKSRYB104K16
C	987	(A,100,172)	CKSRYB102K50
C	1101	(A,27,108)	CKSRYB105K6R3
C	1103	(A,31,115) ELECT. CAPACITOR	CEAT470M35
C	1201	(A,24,103)	CKSRYB105K6R3
C	1204	(A,31,103)	CKSRYB563K16
C	1301	(A,18,95)	CKSRYB105K6R3
C	1413	(A,99,17)	CEAT100M50
C	1501	(A,61,48)	CKSRYB103K50
C	1502	(A,61,43)	CKSRYB104K16
C	1505	(A,58,51)	CEAT101M10
C	3001	(A,44,157)	CKSRYB103K50
C	3011	(A,20,182)	CEAT100M50
C	3012	(A,20,188)	CEAT100M50
C	3019	(A,63,165)	CEAT100M50
C	3020	(A,62,172)	CEAT100M50
C	3021	(A,29,138)	CKSRYB104K16
C	3022	(A,42,143)	CKSRYB104K16
C	3023	(A,31,135) ELECT. CAPACITOR	CEAT470M35
C	3024	(A,40,136) ELECT. CAPACITOR	CEAT470M35
C	3025	(A,33,141)	CEAT100M50
C	3026	(A,33,147)	CEAT100M50
C	3027	(A,16,151)	CKSRYB104K16
C	3028	(A,16,142)	CKSRYB104K16
C	3029	(A,16,144)	CKSQYB225K10
C	3041	(A,19,161)	CEAT100M50
C	3042	(A,22,151)	CKSRYB104K16
C	3043	(A,27,158)	CEAT2R2M50
C	3044	(A,24,151)	CKSRYB104K16
C	3045	(A,20,155)	CEAT100M50
C	3046	(A,20,151)	CKSRYB104K16
C	3048	(A,17,139)	CKSRYB103K50
C	3052	(A,25,134)	CKSRYB104K16
C	3901	(A,77,198)	CKSRYB104K16
C	3902	(A,88,204)	CCSRCH101J50
C	3903	(A,77,201)	CCSRCH330J50
C	3904	(A,89,198)	CCSRCH330J50
C	3905	(A,92,213)	CCSRCH471J50
C	3906	(A,74,198)	CKSQYB105K16
C	3907	(A,80,208) ELECT. CAPACITOR	CEAT470M35
C	3908	(A,74,201)	CKSQYB105K16
C	3909	(A,72,207)	CEAT100M50
C	3910	(A,91,211)	CKSQYB105K16
C	3911	(A,90,208)	CEAT100M50
C	3951	(A,41,73)	CEAT101M16
C	3952	(A,35,73)	CEAT101M16
C	5502	(A,56,36)	CEAT101M10
C	5504	(A,62,56)	CKSRYB103K50
C	5508	(A,62,54)	CKSRYB103K50
C	5509	(A,68,50)	CKSRYB104K16
C	5517	(A,68,41)	CKSRYB103K50
C	5518	(A,66,38)	CKSRYB104K16
C	5519	(A,62,33)	CKSRYB103K50
C	5521	(A,63,28)	CKSRYB104K16
C	5522	(A,64,33)	CKSRYB103K50
C	5524	(A,58,62)	CEAT100M50
C	5539	(A,84,25)	CKSRYB104K16
C	5555	(A,99,32)	CKSRYB104K16
C	5557	(A,116,38)	CKSRYB104K16
C	5558	(A,106,36)	CCSRCH470J50
C	5569	(A,100,48)	CKSRYB103K50
C	5577	(A,100,57)	CKSRYB103K50
C	5578	(A,101,62)	CKSRYB103K50
C	5579	(A,93,64)	CKSRYB102K50
C	5589	(A,84,63)	CKSRYB104K16
C	5601	(A,72,6)	CKSRYB102K50
C	5602	(A,77,6)	CKSRYB102K50
C	5603	(A,81,6)	CKSRYB102K50
C	5701	(A,79,172)	CCSRCH101J50
C	5703	(A,78,176)	CCSRCH101J50
C	5707	(A,75,185)	CKSRYB102K50
C	5708	(A,72,182) ELECT. CAPACITOR	CEAT470M35
C	5931	(A,85,224)	CCSRCH221J50
C	5932	(A,83,217)	CCSRCH221J50
C	5936	(A,83,214)	CCSRCH221J50

CF DAMP ASSY

MISCELLANEOUS

	IC	3101 (A,22,84) 8CH PWM PROCESSOR IC	TAS5508BPAG
⚠	IC	3121 (A,56,32) REGULATOR IC	NJM78M12DL1A
	IC	3191 (A,99,139) OP-AMP IC	BA10358F
⚠	IC	3201 (A,46,54) DIGITAL AMP IC	TAS5142DDV
⚠	IC	3301 (A,46,84) DIGITAL AMP IC	TAS5142DDV
⚠	IC	3401 (A,46,114) DIGITAL AMP IC	TAS5142DDV
	IC	3601 (B,92,14) DUAL OP-AMP	NJM4565MD
	IC	3901 (A,11,27) DUAL OP-AMP	NJM4565MD
⚠	Q	3181 (A,75,31) TRANSISTOR	2SC4154
⚠	Q	3601 (B,92,28) TRANSISTOR	IMX9
⚠	Q	3602 (A,93,17) DIGITAL TR(SC-70)	RT1P241M

Mark	No.	Description	Part No.
⚠	Q 3603 (B,92,34)	TRANSISTOR	IMX9
⚠	Q 3604 (A,28,51)	DIGITAL TR(SC-70)	RT1P241M
	D 3101 (A,28,57)	DIODE	MC2846-11
	D 3181 (A,79,28)	DIODE	UDZS8R2(B)
	D 3183 (A,67,27)	DIODE	1SS352
	D 3184 (A,71,32)	DIODE	1SS352
	D 3191 (A,77,138)	DIODE	UDZS4R7(B)
	D 3603 (A,91,11)	DIODE	UDZS6R2(B)
	L 3201 (A,63,37)	INDUCTOR	ATH7021
	L 3202 (A,63,54)	INDUCTOR	ATH7021
	L 3301 (A,63,70)	INDUCTOR	ATH7021
	L 3302 (A,63,87)	INDUCTOR	ATH7021
	L 3401 (A,63,103)	INDUCTOR	ATH7021
	L 3402 (A,63,120)	INDUCTOR	ATH7021
	JA 5981 (A,113,65)	JACK	RKN1004
	X 3101 (A,18,67)	CRYSTAL RESONATOR (13.5 MHz)	ASS7062
	CN 3101 (A,41,8)	19P PLUG	AKM7077
	CN 3102 (A,77,8)	19P PLUG	AKM7077
	CN 3111	PIN JACK(4P)	AKB7114
	CN 3201 (A,84,140)	2P CONNECTOR	B2P-VH
	CN 3211 (A,116,96)	6CH SPEAKER JACK(V0)	AKE7121
	CN 3221 (A,83,24)	CONNECTOR POST	B2B-PH
		PCB BINDER	VEF1040

RESISTORS

	R 3101 (A,14,95)		RS1/16S221J
	R 3102 (A,14,92)		RS1/16S221J
	R 3103 (A,11,68)		RS1/16S4R7J
	R 3104 (A,13,78)		RAB4C221J
	R 3106 (A,19,73)		RS1/16S105J
	R 3107 (A,22,72)		RAB4C470J
	R 3108 (A,26,72)		RAB4C470J
	R 3111 (A,29,98)		RS1/16S220J
	R 3112 (A,18,97)		RS1/16S470J
	R 3113 (A,15,97)		RS1/16S3R3J
	R 3114 (A,27,54)		RS1/16S103J
	R 3121 (A,48,19)	METAL OXIDE RESISTOR	RS2LMF390J
	R 3122 (A,48,25)	METAL OXIDE RESISTOR	RS2LMF390J
	R 3141 (B,107,35)		RS1/16S331J
	R 3142 (B,104,28)		RS1/16S331J
	R 3151 (A,29,17)		RAB4C103J
	R 3152 (A,36,17)		RAB4C222J
	R 3183 (A,79,33)		RS1/16S681J
	R 3187 (A,79,31)		RS1/16S100J
	R 3191 (A,108,137)	RESISTOR (0.1OHM,2W)	ACN7151
	R 3192 (A,101,135)		RS1/16S1002F
	R 3193 (A,92,140)		RS1/16S1002F
	R 3194 (A,97,133)		RS1/16S1003F
	R 3195 (A,92,141)		RS1/16S1003F
	R 3196 (A,93,133)	CHIP RESISTOR	RS1/16S2201F
	R 3197 (A,79,139)		RS1/16S1002F
⚠	R 3199 (A,94,135)		RS1/16S8R2J
	R 3201 (A,37,46)		RS1/16S100J
	R 3202 (A,37,62)		RS1/16S100J
	R 3204 (A,38,55)		RS1/16S223J
	R 3205 (A,37,50)		RS1/16S221J
⚠	R 3209 (A,36,44)		RS1/16S100J
⚠	R 3210 (A,36,64)		RS1/16S100J
⚠	R 3227 (A,78,36)		RS1/10S3R3J
⚠	R 3228 (A,79,51)		RS1/10S3R3J
	R 3231 (B,83,41)		RS1/10S472J
	R 3232 (B,83,58)		RS1/10S472J
	R 3233 (B,83,49)		RS1/10S472J
	R 3234 (B,83,66)		RS1/10S472J
⚠	R 3235 (B,104,84)		RS1/16S1R0J
⚠	R 3236 (B,95,72)		RS1/16S1R0J
⚠	R 3237 (B,104,72)		RS1/16S1R0J
⚠	R 3238 (B,94,76)		RS1/16S1R0J
⚠	R 3241 (A,57,45)		RS1/10S180J
⚠	R 3242 (A,57,59)		RS1/10S180J
⚠	R 3243 (A,57,49)		RS1/10S180J
⚠	R 3244 (A,57,63)		RS1/10S180J
	R 3301 (A,37,76)		RS1/16S100J
	R 3302 (A,37,92)		RS1/16S100J
	R 3304 (A,38,85)		RS1/16S223J
	R 3305 (A,37,80)		RS1/16S221J
⚠	R 3309 (A,36,74)		RS1/16S100J
⚠	R 3310 (A,36,94)		RS1/16S100J
⚠	R 3327 (A,79,68)		RS1/10S3R3J
⚠	R 3328 (A,79,84)		RS1/10S3R3J
	R 3331 (B,83,74)		RS1/10S472J
	R 3332 (B,83,91)		RS1/10S472J
	R 3333 (B,83,82)		RS1/10S472J
	R 3334 (B,83,99)		RS1/10S472J
⚠	R 3335 (B,97,90)		RS1/16S1R0J
⚠	R 3336 (B,104,99)		RS1/16S1R0J
⚠	R 3337 (B,95,95)		RS1/16S1R0J
⚠	R 3338 (B,109,94)		RS1/16S1R0J
⚠	R 3341 (A,57,75)		RS1/10S180J
⚠	R 3342 (A,57,89)		RS1/10S180J
⚠	R 3343 (A,57,79)		RS1/10S180J
⚠	R 3344 (A,57,93)		RS1/10S180J
	R 3401 (A,37,106)		RS1/16S100J
	R 3402 (A,37,122)		RS1/16S100J
	R 3404 (A,38,115)		RS1/16S223J
	R 3405 (A,37,110)		RS1/16S221J
⚠	R 3409 (A,36,104)		RS1/16S100J
⚠	R 3410 (A,36,124)		RS1/16S100J
⚠	R 3427 (A,79,101)		RS1/10S3R3J
⚠	R 3428 (A,79,117)		RS1/10S3R3J
	R 3431 (B,83,107)		RS1/10S472J
	R 3432 (B,82,123)		RS1/10S472J
	R 3433 (B,83,114)		RS1/10S472J
	R 3434 (B,82,125)		RS1/10S472J
⚠	R 3435 (B,95,110)		RS1/16S1R0J
⚠	R 3436 (B,104,118)		RS1/16S1R0J
⚠	R 3437 (B,92,113)		RS1/16S1R0J
⚠	R 3438 (B,109,109)		RS1/16S1R0J
⚠	R 3441 (A,57,105)		RS1/10S180J
⚠	R 3442 (A,57,119)		RS1/10S180J
⚠	R 3443 (A,57,109)		RS1/10S180J
⚠	R 3444 (A,57,123)		RS1/10S180J
	R 3601 (A,76,16)		RS1/16S472J
	R 3602 (A,82,12)		RS1/16S472J
	R 3603 (B,101,10)		RS1/16S472J
	R 3604 (B,104,10)		RS1/16S472J
	R 3605 (B,81,16)		RS1/16S472J
	R 3606 (B,103,16)		RS1/16S472J
	R 3607 (B,83,11)		RS1/16S472J
	R 3608 (B,101,11)		RS1/16S472J

Mark	No.	Description	Part No.
R	3609 (B,86,17)		RS1/16S103J
R	3610 (B,99,17)		RS1/16S103J
R	3611 (B,83,13)		RS1/16S103J
R	3612 (B,101,13)		RS1/16S103J
R	3613 (B,87,25)		RS1/16S473J
R	3614 (B,98,25)		RS1/16S473J
R	3615 (B,87,26)		RS1/16S102J
R	3616 (B,98,26)		RS1/16S102J
R	3617 (B,94,25)		RS1/16S472J
R	3618 (B,90,25)		RS1/16S472J
R	3619 (B,95,38)		RS1/16S221J
R	3620 (B,97,38)		RS1/16S221J
R	3623 (A,91,7)		RS1/16S102J
R	3629 (B,87,28)		RS1/16S821J
R	3630 (B,98,28)		RS1/16S821J
R	3631 (B,94,31)		RS1/16S472J
R	3632 (B,90,31)		RS1/16S472J
R	3901 (A,11,39)		RAB4C472J
R	3905 (A,17,35)		RS1/16S562J
R	3906 (A,6,35)		RS1/16S562J
R	3907 (A,15,35)		RS1/16S562J
R	3908 (A,7,35)		RS1/16S562J
R	3909 (A,16,32)		RS1/16S183J
R	3910 (A,6,32)		RS1/16S183J
R	3911 (A,13,32)		RS1/16S183J
R	3912 (A,9,32)		RS1/16S183J
R	3913 (A,11,43)		RS1/16S472J
R	3914 (A,7,42)		RS1/16S472J
R	3915 (A,12,41)		RS1/16S472J
R	3916 (A,8,43)		RS1/16S472J
R	3923 (A,12,24)		RS1/16S472J
R	3924 (A,12,21)		RS1/16S472J
R	5982		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3101 (A,16,92)		CKSRYB104K16
C	3102 (A,14,93)		CKSRYB103K50
C	3103 (A,11,94)		CKSRYB104K16
C	3104 (A,11,91)		CKSRYB104K16
C	3105 (A,14,90)		CKSRYB103K50
C	3106 (A,12,87)		CKSRYB104K16
C	3107 (A,12,86)		CKSRYB224K16
C	3108 (A,12,72)		CEAT100M50
C	3109 (A,12,84)		CKSRYB102K50
C	3110 (A,16,77)		CKSRYB104K16
C	3111 (A,13,64)		CEAT100M50
C	3112 (A,17,76)		CKSRYB104K16
C	3113 (A,17,74)		CCSRCH180J50
C	3114 (A,17,73)		CCSRCH150J50
C	3115 (A,28,76)		CKSRYB104K16
C	3116 (A,28,75)		CKSRYB224K16
C	3117 (A,26,66)		CEAT100M50
C	3118 (A,29,92)		CKSRYB104K16
C	3119 (A,24,94)		CKSRYB224K16
C	3120 (A,25,97)		CEAT100M50
C	3121 (A,68,30)		CEAT100M50
C	3123 (A,66,25)		CEAT100M50
C	3141 (B,107,37)		CCSRCH221J50
C	3142 (B,102,28)		CCSRCH221J50
C	3151 (B,24,20)		CKSRYB104K16
C	3182 (A,77,24)	ELECT. CAPACITOR	CEAT470M35
C	3192 (A,98,135)		CKSRYB104K50
C	3201 (A,39,45)		CKSRYB104K16
C	3202 (A,39,63)		CKSRYB104K16
C	3205 (A,39,48)		CKSRYB104K16
C	3206 (A,38,53)		CKSRYB104K16
C	3207 (A,37,44)		CKSRYB104K16
C	3208 (A,37,64)		CKSRYB104K16
C	3211 (A,59,42)		CKSRYB104K50
C	3212 (A,59,57)		CKSRYB104K50
C	3213 (A,59,51)		CKSRYB104K50
C	3214 (A,59,65)		CKSRYB104K50
C	3215 (B,57,41)		CKSRYB333K50
C	3216 (B,57,55)		CKSRYB333K50
C	3217 (B,57,53)		CKSRYB333K50
C	3218 (B,57,67)		CKSRYB333K50
C	3221 (A,86,43)	ELECT. CAPACITOR	CEAT102M35
C	3222 (A,86,59)	ELECT. CAPACITOR	CEAT102M35
C	3223 (A,80,37)		CKSRYB103K50
C	3224 (A,80,54)		CKSRYB103K50
C	3225 (A,80,48)		CKSRYB102K50
C	3226 (A,80,65)		CKSRYB102K50
C	3231 (A,79,45)		CFTLA474J2A
C	3232 (A,79,62)		CFTLA474J2A
C	3237 (B,105,87)		CKSRYB103K50
C	3238 (B,99,74)		CKSRYB103K50
C	3239 (B,103,74)		CKSRYB103K50
C	3240 (B,94,78)		CKSRYB103K50
C	3241 (A,56,44)		CKSRYB331K50
C	3242 (A,56,58)		CKSRYB331K50
C	3243 (A,56,50)		CKSRYB331K50
C	3244 (A,56,64)		CKSRYB331K50
C	3245 (B,104,82)		CKSRYB104K50
C	3246 (B,99,75)		CKSRYB104K50
C	3247 (B,104,75)		CKSRYB104K50
C	3248 (B,95,81)		CKSRYB104K50
C	3301 (A,39,75)		CKSRYB104K16
C	3302 (A,39,93)		CKSRYB104K16
C	3305 (A,39,78)		CKSRYB104K16
C	3306 (A,38,83)		CKSRYB104K16
C	3307 (A,37,74)		CKSRYB104K16
C	3308 (A,37,94)		CKSRYB104K16
C	3311 (A,59,73)		CKSRYB104K50
C	3312 (A,59,87)		CKSRYB104K50
C	3313 (A,59,81)		CKSRYB104K50
C	3314 (A,59,95)		CKSRYB104K50
C	3315 (B,57,71)		CKSRYB333K50
C	3316 (B,57,85)		CKSRYB333K50
C	3317 (B,57,83)		CKSRYB333K50
C	3318 (B,57,97)		CKSRYB333K50
C	3321 (A,86,76)	ELECT. CAPACITOR	CEAT102M35
C	3322 (A,86,92)	ELECT. CAPACITOR	CEAT102M35
C	3323 (A,80,70)		CKSRYB103K50
C	3324 (A,80,87)		CKSRYB103K50
C	3325 (A,80,81)		CKSRYB102K50
C	3326 (A,80,98)		CKSRYB102K50
C	3331 (A,79,78)		CFTLA474J2A
C	3332 (A,79,95)		CFTLA474J2A
C	3337 (B,98,89)		CKSRYB103K50
C	3338 (B,103,97)		CKSRYB103K50

Mark	No.		Description	Part No.
C	3339	(B,94,98)		CKSRYB103K50
C	3340	(B,108,91)		CKSRYB103K50
C	3341	(A,56,74)		CKSRYB331K50
C	3342	(A,56,88)		CKSRYB331K50
C	3343	(A,56,80)		CKSRYB331K50
C	3344	(A,56,94)		CKSRYB331K50
C	3345	(B,101,90)		CKSRYB104K50
C	3346	(B,102,99)		CKSRYB104K50
C	3347	(B,94,100)		CKSRYB104K50
C	3348	(B,107,90)		CKSRYB104K50
C	3401	(A,39,105)		CKSRYB104K16
C	3402	(A,39,123)		CKSRYB104K16
C	3405	(A,39,108)		CKSRYB104K16
C	3406	(A,38,113)		CKSRYB104K16
C	3407	(A,37,104)		CKSRYB104K16
C	3408	(A,37,124)		CKSRYB104K16
C	3411	(A,59,103)		CKSRYB104K50
C	3412	(A,59,117)		CKSRYB104K50
C	3413	(A,59,111)		CKSRYB104K50
C	3414	(A,59,126)		CKSRYB104K50
C	3415	(B,57,101)		CKSRYB333K50
C	3416	(B,59,117)		CKSRYB333K50
C	3417	(B,57,114)		CKSRYB333K50
C	3418	(B,57,127)		CKSRYB333K50
C	3421	(A,86,109)	ELECT. CAPACITOR	CEAT102M35
C	3422	(A,86,125)	ELECT. CAPACITOR	CEAT102M35
C	3423	(A,80,103)		CKSRYB103K50
C	3424	(A,80,120)		CKSRYB103K50
C	3425	(A,80,114)		CKSRYB102K50
C	3426	(A,80,131)		CKSRYB102K50
C	3431	(A,79,111)		CFTLA474J2A
C	3432	(A,79,128)		CFTLA474J2A
C	3437	(B,93,108)		CKSRYB103K50
C	3438	(B,105,120)		CKSRYB103K50
C	3439	(B,90,114)		CKSRYB103K50
C	3440	(B,108,106)		CKSRYB103K50
C	3441	(A,56,104)		CKSRYB331K50
C	3442	(A,56,118)		CKSRYB331K50
C	3443	(A,56,110)		CKSRYB331K50
C	3444	(A,56,124)		CKSRYB331K50
C	3445	(B,96,107)		CKSRYB104K50
C	3446	(B,106,117)		CKSRYB104K50
C	3447	(B,94,113)		CKSRYB104K50
C	3448	(B,107,105)		CKSRYB104K50
C	3601	(B,80,14)		CCSRCH821J50
C	3602	(B,104,14)		CCSRCH821J50
C	3603	(B,80,11)		CCSRCH821J50
C	3604	(B,104,11)		CCSRCH821J50
C	3605	(B,84,17)		CCSRCH331J50
C	3606	(B,100,17)		CCSRCH331J50
C	3607	(B,80,13)		CCSRCH331J50
C	3608	(B,104,13)		CCSRCH331J50
C	3609	(A,89,19)		CEAT100M50
C	3610	(A,96,19)		CEAT100M50
C	3611	(B,87,30)		CCSRCH821J50
C	3612	(B,98,30)		CCSRCH821J50
C	3621	(A,85,8)		CEAT100M50
C	3622	(A,97,8)		CEAT100M50
C	3623	(B,91,18)		CKSRYB104K16
C	3624	(A,93,12)		CKSRYB104K16

Mark	No.		Description	Part No.
C	3901	(A,13,35)		CCSRCH681J50
C	3902	(A,9,35)		CCSRCH681J50
C	3903	(A,13,36)		CCSRCH681J50
C	3904	(A,9,36)		CCSRCH681J50
C	3905	(A,16,33)		CCSRCH181J50
C	3906	(A,6,33)		CCSRCH181J50
C	3907	(A,13,33)		CCSRCH561J50
C	3908	(A,9,33)		CCSRCH561J50
C	3921	(A,19,18)		CEAT100M50
C	3922	(A,16,23)		CEAT100M50
C	3923	(A,9,24)		CKSRYB104K16
C	3924	(A,12,22)		CKSRYB104K16

IF DSP ASSY

MISCELLANEOUS

IC	601	(A,87,53)	DIR IC	AK4117VF
IC	650	(A,66,36)	IC	TC7SH08FUS1
IC	801	(A,31,48)	DSP IC	DSPC56371AF180
IC	802	(A,21,34)	IC	TC7WU04FU
IC	851	(B,44,46)	FLASH ROM IC	PDC156A8
			FLASH ROM IC	LE25FW106MA
⚠ IC	901	(A,95,42)	LDO REGULATOR	BD00KA5WFP
IC	951	(B,96,55)	IC	TC74VHC08FTS1
Q	801	(B,28,40)	TRANSISTOR	RT1N241M
L	602	(B,87,49)	CHIP SOLID INDUCTOR	QTL1013
L	603	(A,84,58)	CHIP SOLID INDUCTOR	QTL1013
L	650	(A,68,39)	CHIP SOLID INDUCTOR	QTL1013
L	801	(B,23,41)	CHIP SOLID INDUCTOR	QTL1013
L	802	(B,23,37)	CHIP SOLID INDUCTOR	QTL1013
L	803	(A,39,37)	CHIP SOLID INDUCTOR	ATL7002
L	804	(B,18,50)	CHIP SOLID INDUCTOR	ATL7002
L	901	(B,91,36)	CHIP SOLID INDUCTOR	ATL7002
L	952	(B,93,46)	CHIP SOLID INDUCTOR	QTL1013
KN	901		SCREW PLATE	VNE1948
X	801	(A,16,40)	CRYSTAL RESONATOR (24.576 MHz)	XSS3003
CN	701	(A,66,31)	19P SOCKET	XKP3054
CN	901	(A,99,31)	9P SOCKET	XKP3088
CN	951	(A,26,31)	13P SOCKET	XKP3053

RESISTORS

R	601	(B,81,53)		RS1/16S471J
R	603	(B,79,54)		RS1/16S471J
R	604	(A,92,48)		RS1/16S151J
R	605	(B,76,45)		RS1/16S101J
R	606	(B,80,45)		RS1/16S101J
R	607	(B,78,45)		RS1/16S470J
R	608	(B,89,52)		RS1/16S470J
R	610	(A,79,51)		RS1/16S470J
R	612	(B,91,52)		RS1/16S101J
R	616	(A,95,51)		RS1/16S103J
R	617	(A,80,58)		RS1/16S123J
R	755	(A,61,36)	RESISTOR ARRAY	RAB4C104J
R	801	(A,42,59)		RS1/16S470J
R	802	(A,34,59)		RAB4C101J
R	803	(B,38,57)		RS1/16S103J
R	804	(B,36,57)		RS1/16S103J
R	805	(B,34,57)		RS1/16S103J
R	806	(B,32,57)		RS1/16S103J

Mark	No.	Description	Part No.
R	807	(B,30,57)	RS1/16S473J
R	810	(A,18,50)	RS1/16S473J
R	811	(B,17,45)	RS1/16S101J
R	812	(B,21,45)	RS1/16S101J
R	813	(B,19,45)	RS1/16S472J
R	814	(B,23,45)	RS1/16S101J
R	815	(B,27,45)	RS1/16S101J
R	816	(B,26,35)	RS1/16S101J
R	817	(B,25,39)	RS1/16S103J
R	818	(A,28,34)	RS1/16S470J
R	821	(A,15,37)	RS1/16S471J
R	822	(A,17,37)	RS1/16S105J
R	823	(A,25,35)	RS1/16S101J
R	825	(A,31,35)	RS1/16S101J
R	827	(B,32,39)	RS1/16S0R0J
R	828	(B,30,39)	RS1/16S103J
R	829	(A,35,37)	RS1/16S473J
R	832	(A,41,42)	RS1/16S470J
R	833	(A,45,45)	RS1/16S470J
R	834	(A,44,48)	RS1/16S470J
R	836	(A,41,50)	RS1/16S470J
R	837	(A,43,57)	RAB4C470J
R	851	(A,41,40)	RS1/16S470J
R	852	(A,40,37)	RS1/16S222J
R	855	(A,48,45)	RS1/16S103J
R	856	(B,40,46)	RS1/16S103J
R	857	(A,48,47)	RS1/16S103J
R	858	(A,49,50)	RS1/16S0R0J
R	901	(B,100,45)	RS1/16S333J
R	902	(B,104,49)	RS1/16S2202F
R	903	(B,98,36)	RS1/16S104J
R	953	(B,37,32)	RS1/16S104J
R	954	(B,35,32)	RS1/16S104J
R	955	(B,28,35)	RS1/16S104J
R	956	(B,33,32)	RS1/16S104J
R	957	(B,21,41)	RS1/16S104J
R	958	(A,13,34)	RS1/16S104J
R	959	(B,12,46)	RS1/16S104J
R	960	(A,11,34)	RS1/16S104J
R	963	(A,94,59)	RS1/16S101J
R	964	(A,97,55)	RS1/16S101J
R	965	(A,100,57)	RAB4C101J

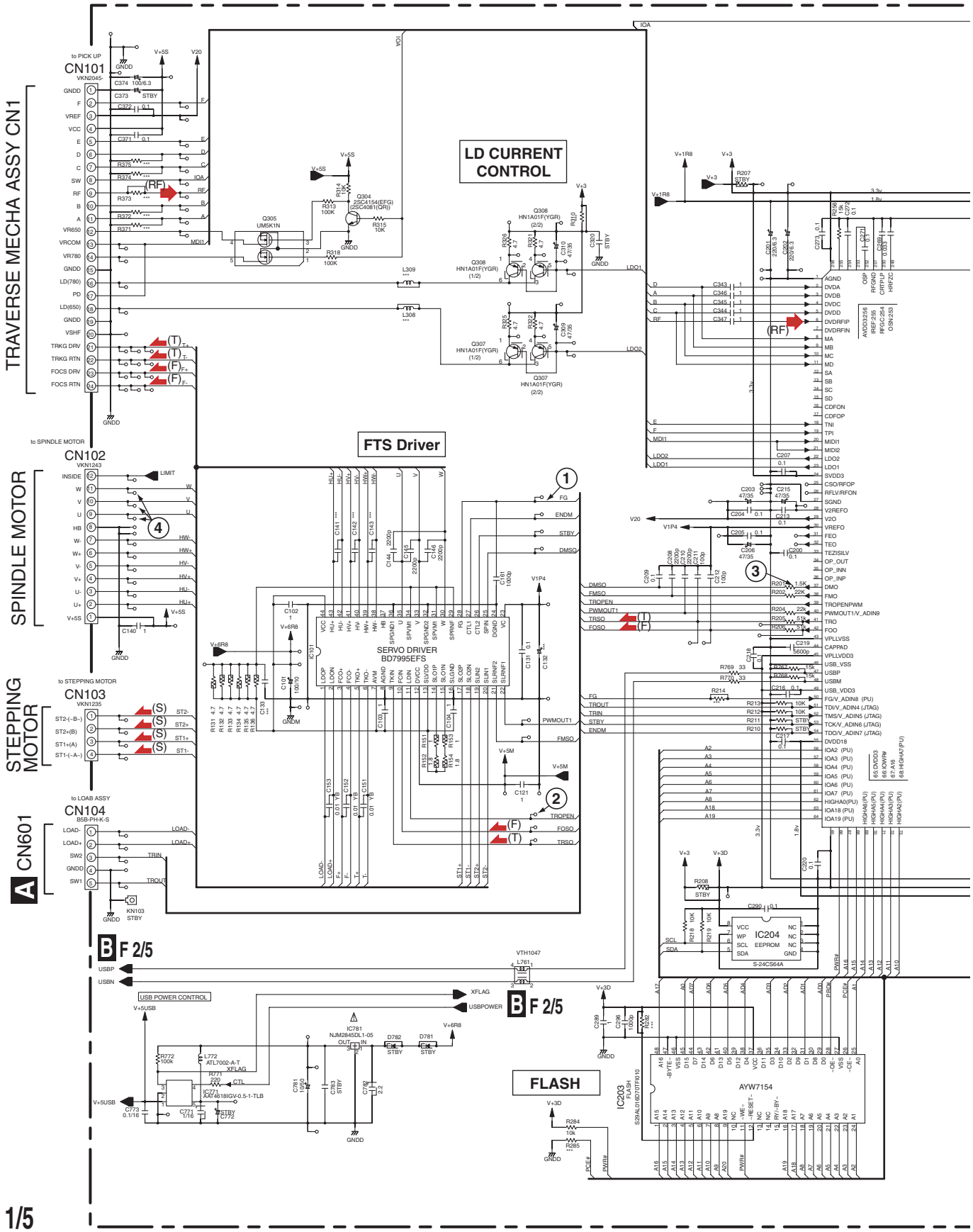
CAPACITORS

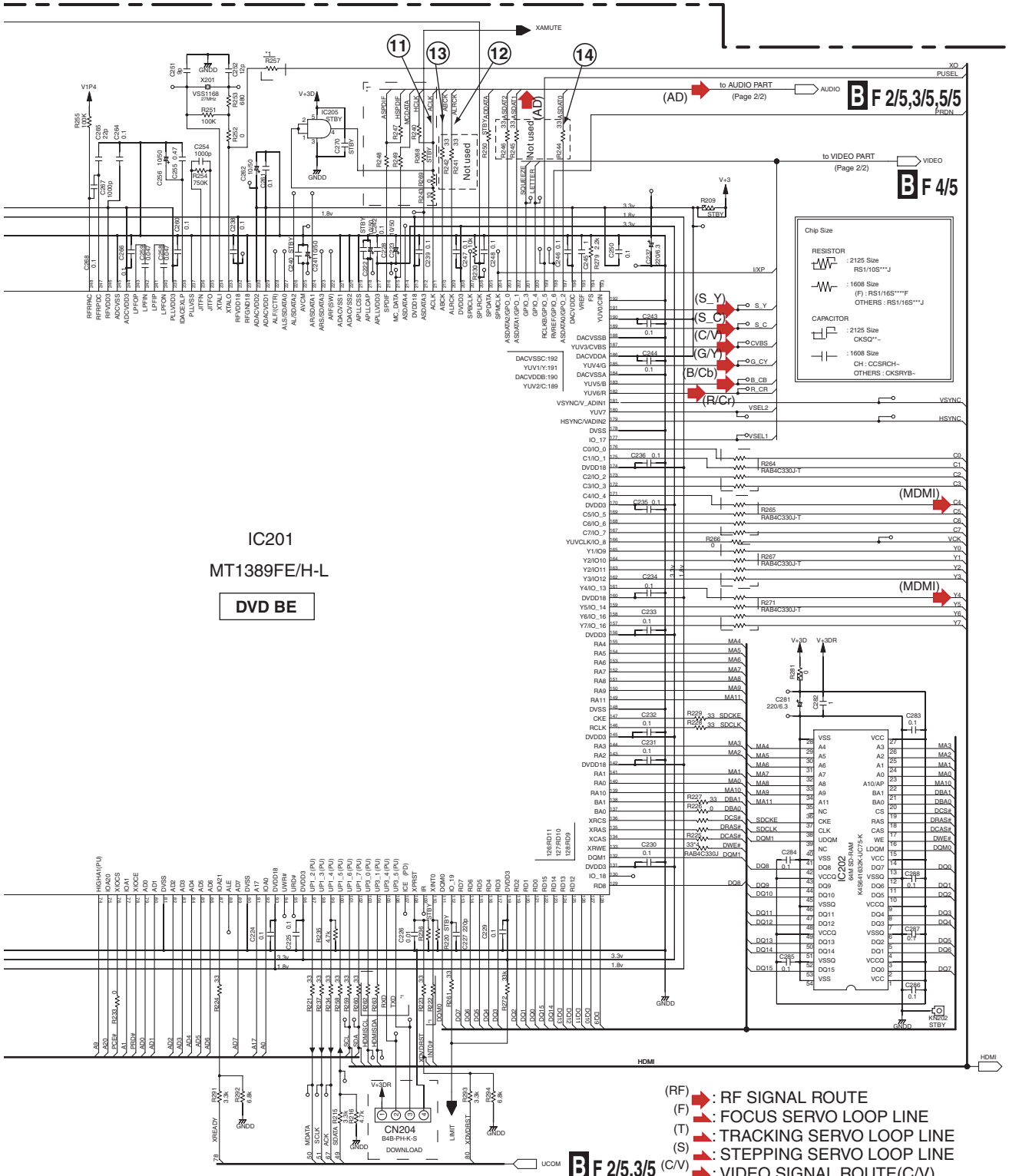
Mark	No.	Description	Part No.
C	603	(A,80,57)	CKSRYB103K50
C	606	(A,81,53)	CKSRYB104K16
C	611	(A,90,59)	CKSRYB104K16
C	614	(A,94,55)	CKSRYB102K50
C	617	(A,87,58)	CKSRYB104K16
C	650	(A,68,35)	CKSRYB104K16
C	801	(A,37,57)	CCSRCH471J50
C	802	(A,37,59)	CKSRYB104K16
C	803	(A,31,57)	CKSRYB105K6R3
C	805	(A,25,57)	CCSRCH471J50
C	806	(A,25,58)	CKSRYB104K16
C	807	(A,21,53)	CCSRCH471J50
C	808	(A,19,53)	CKSRYB104K16
C	809	(A,21,50)	CKSRYB105K6R3
C	811	(B,15,46)	CCSRCH221J50
C	813	(B,29,45)	CCSRCH221J50
C	814	(A,20,44)	CCSRCH471J50
C	815	(A,20,45)	CKSRYB104K16
C	816	(A,17,35)	CCSRCH471J50
C	817	(A,16,35)	CKSRYB104K16
C	819	(A,12,37)	CCSRCH5R0C50
C	820	(A,20,37)	CCSRCH5R0C50
C	821	(A,24,38)	CCSRCH471J50
C	822	(A,24,37)	CKSRYB104K16
C	823	(A,27,38)	CKSRYB105K6R3
C	825	(A,29,37)	CKSRYB103K50
C	826	(A,32,38)	CKSRYB105K6R3
C	828	(A,40,44)	CCSRCH471J50
C	829	(A,41,44)	CKSRYB104K16
C	830	(A,41,47)	CKSRYB105K6R3
C	832	(A,41,52)	CCSRCH471J50
C	833	(A,42,52)	CKSRYB104K16
C	851	(B,50,48)	CKSRYB104K16
C	901	(A,100,37)	CKSRYB105K6R3
C	906	(A,104,46)	CKSRYB105K6R3
C	951	(B,92,56)	CKSRYB104K16

2. SCHEMATIC DIAGRAM

2.1 DVD MAIN ASSY (1/5)

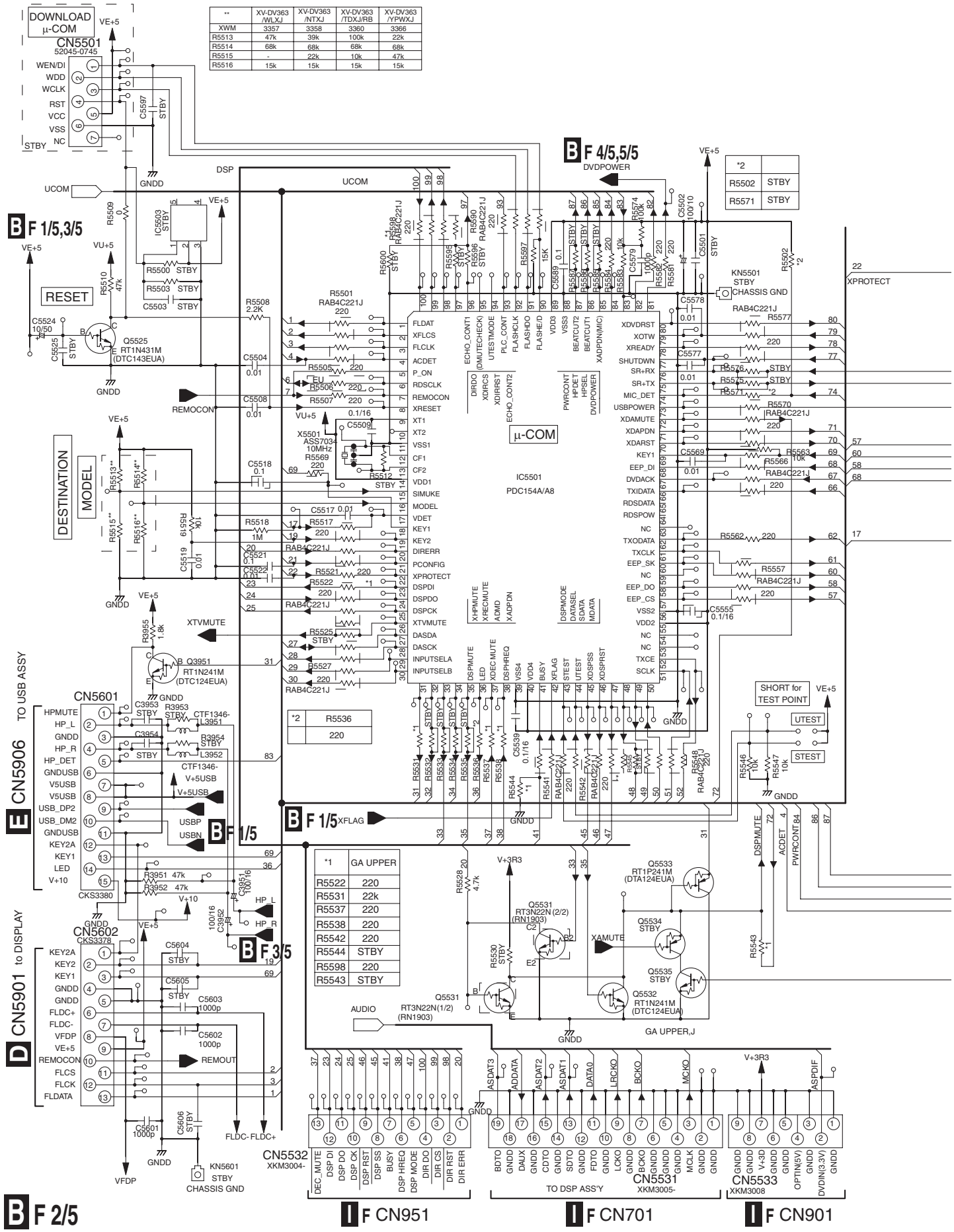
B F 1/5 DVD MAIN ASSY
(XWM3357 : WLXJ)(XWM3358 : NTXJ)
(XWM3360 : TDXJ/RB)(XWM3366 : YPWXJ)





*1	GA UPPER
R257	0
R240	0
R247	0
R243	10
R248	33
R249	-
R262	33
R263	33
R222	-

2.2 DVD MAIN ASSY (2/5)



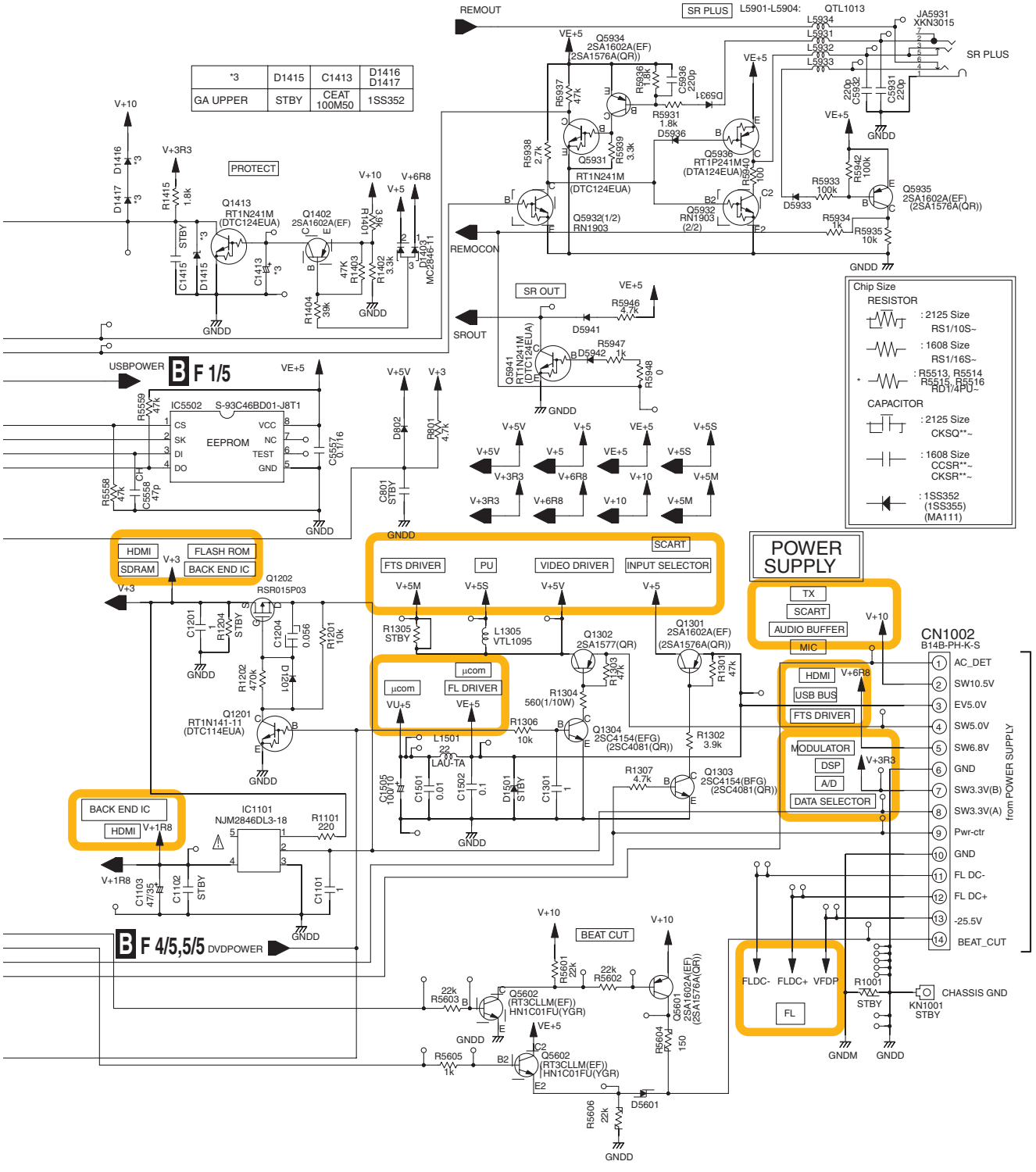
**	XV-DV363 /WLXJ	XV-DV363 /NTXJ	XV-DV363 /TDXJ/RB	XV-DV363 /YPWXJ
XWM	3357	3358	3360	3366
R5513	47k	39k	100k	22k
R5514	68k	68k	68k	68k
R5515	-	22k	10k	47k
R5516	15k	15k	15k	15k

*2	
R5502	STBY
R5571	STBY

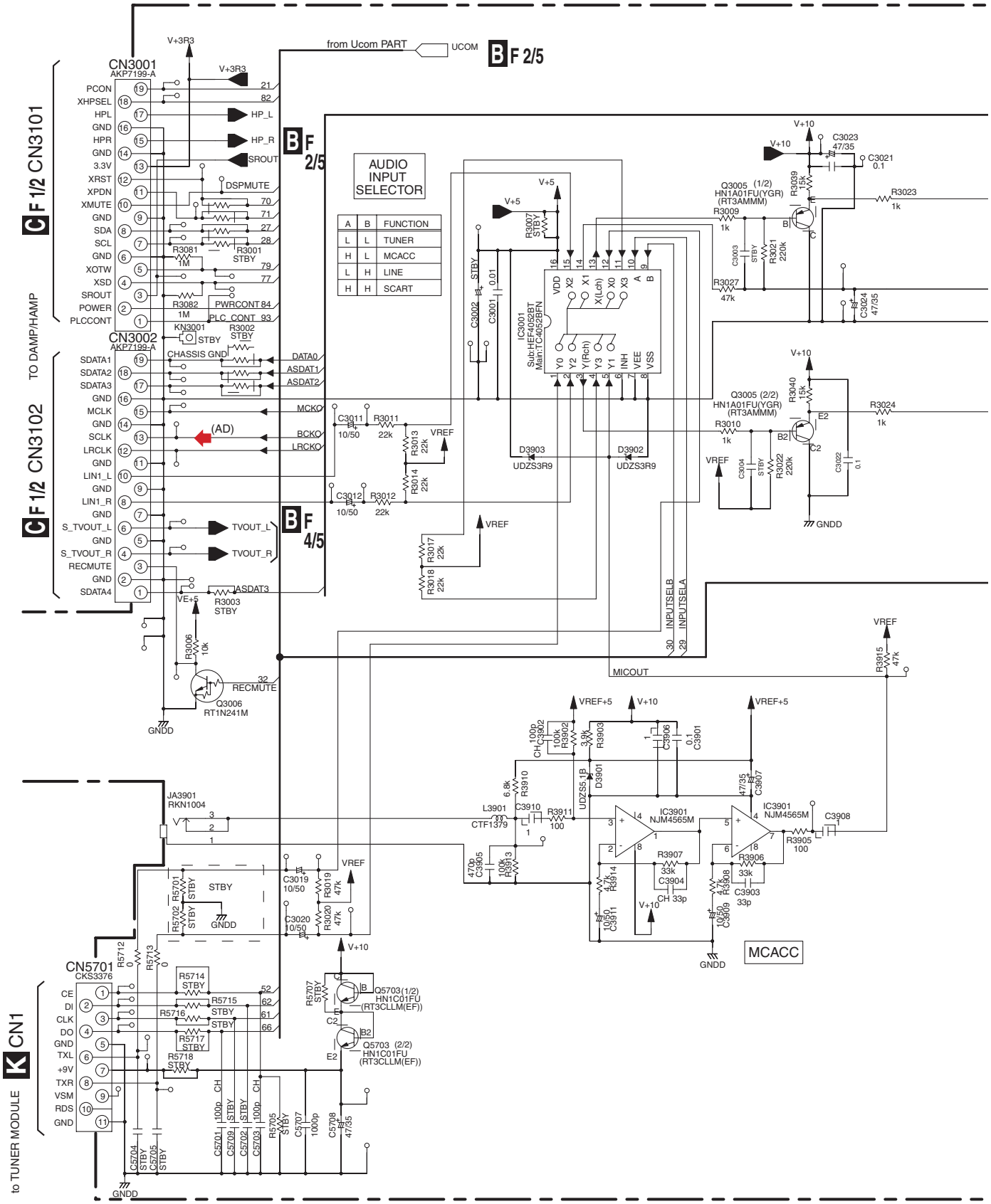
*2	R5536
	220

*1	GA UPPER
R5522	220
R5531	22k
R5537	220
R5538	220
R5542	220
R5544	STBY
R5598	220
R5543	STBY

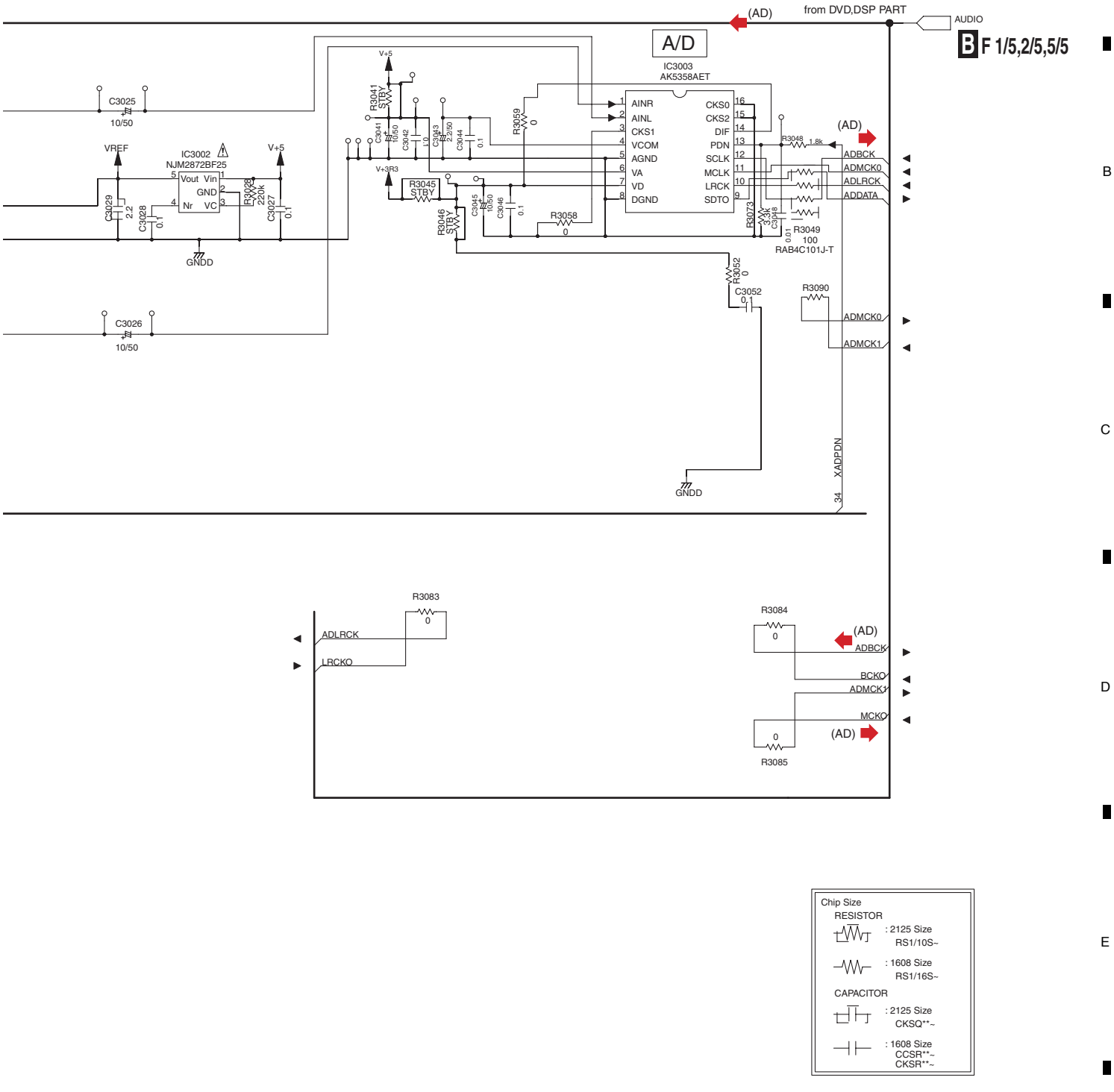
B F 2/5 DVD MAIN ASSY
(XWM3357 : WLXJ)(XWM3358 : NTXJ)
(XWM3360 : TDXJ/RB)(XWM3366 : YPWXJ)



2.3 DVD MAIN ASSY (3/5)



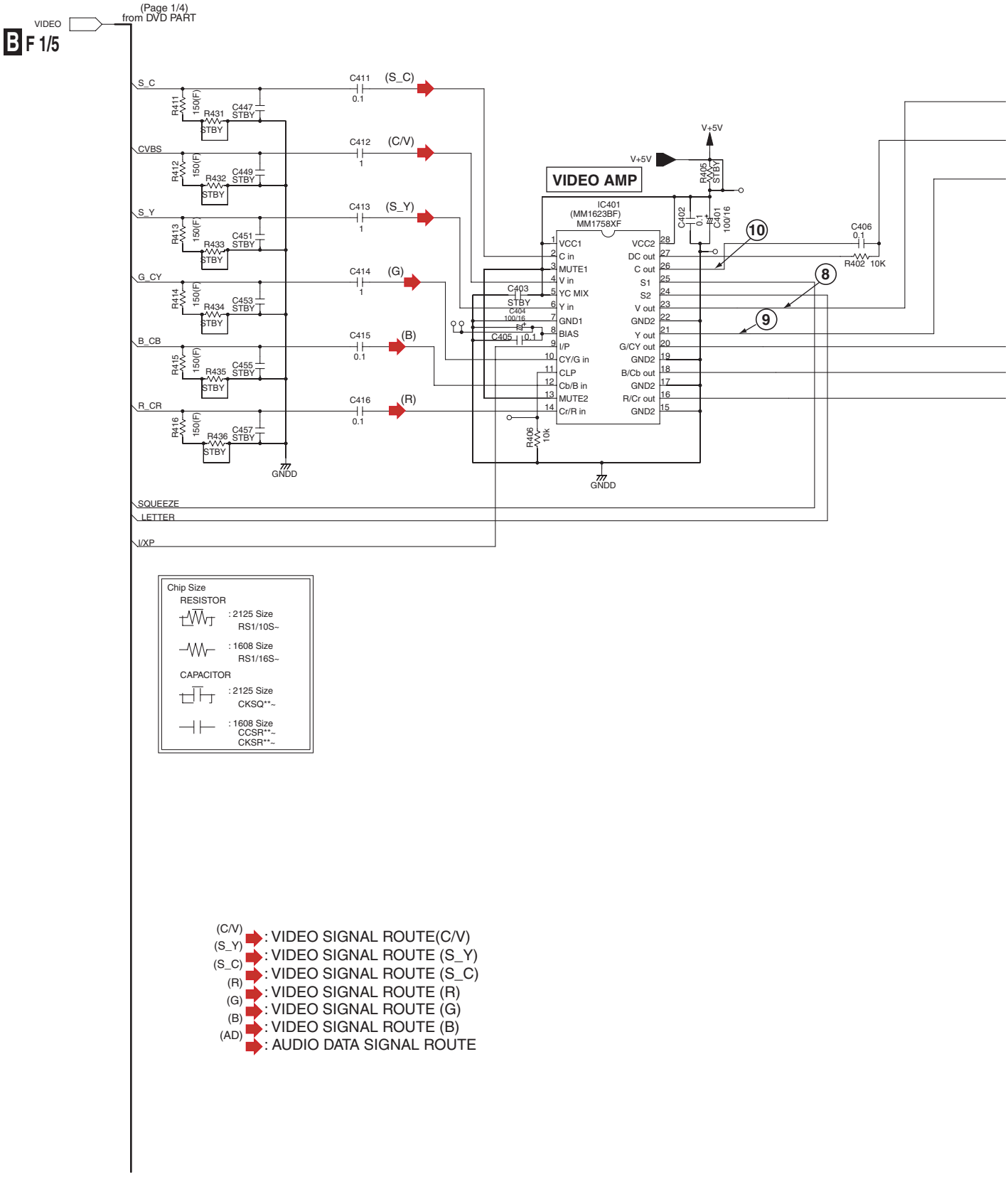
DVD MAIN ASSY
(XWM3357 : WLXJ)(XWM3358 : NTXJ)
(XWM3360 : TDXJ/RB)(XWM3366 : YPWXJ)



Chip Size
RESISTOR
: 2125 Size RS1/10S~
: 1608 Size RS1/16S~
CAPACITOR
: 2125 Size CKSQ**~
: 1608 Size CCSR**~ CKSR**~

(AD) : AUDIO DATA SIGNAL ROUTE

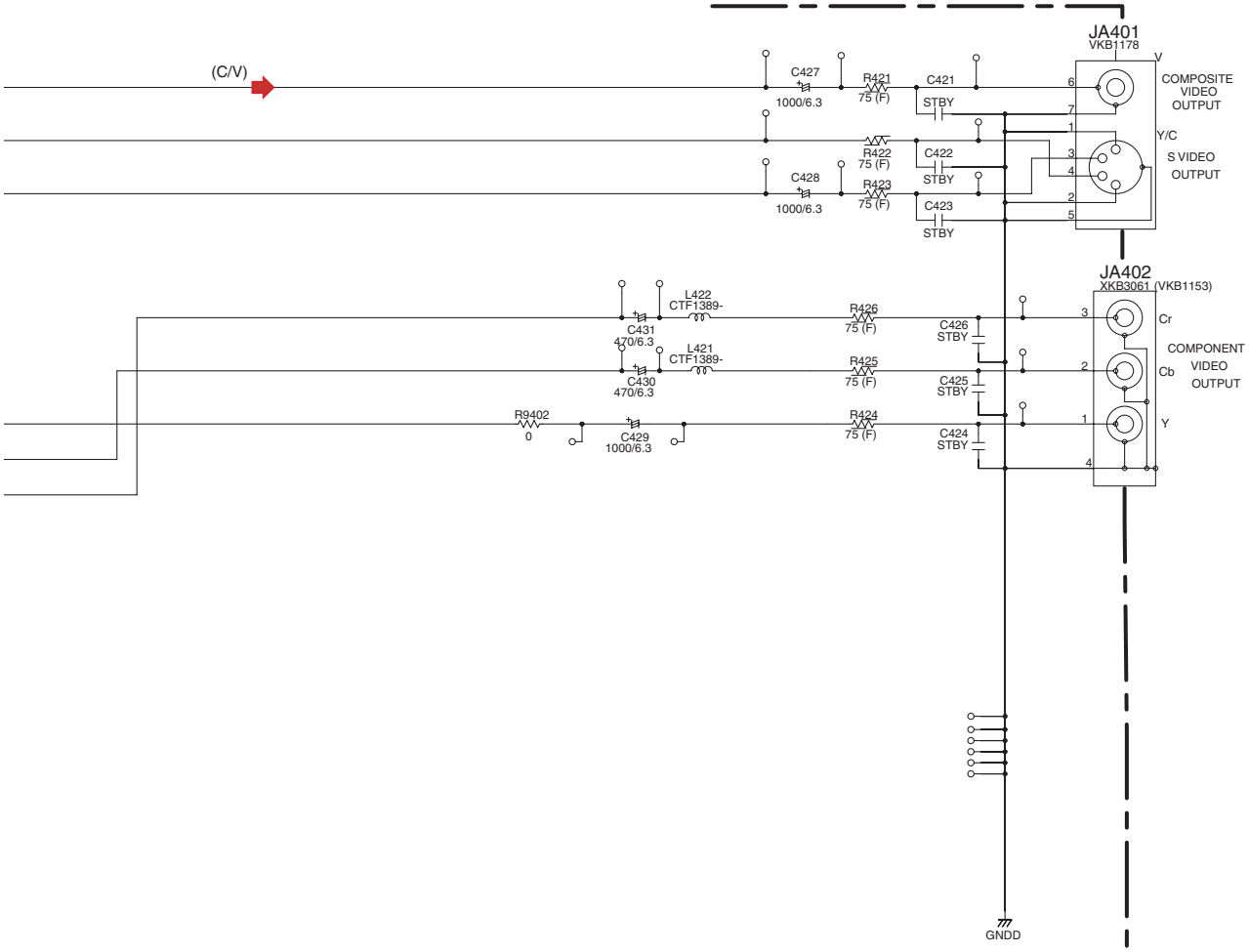
2.4 DVD MAIN ASSY (4/5)



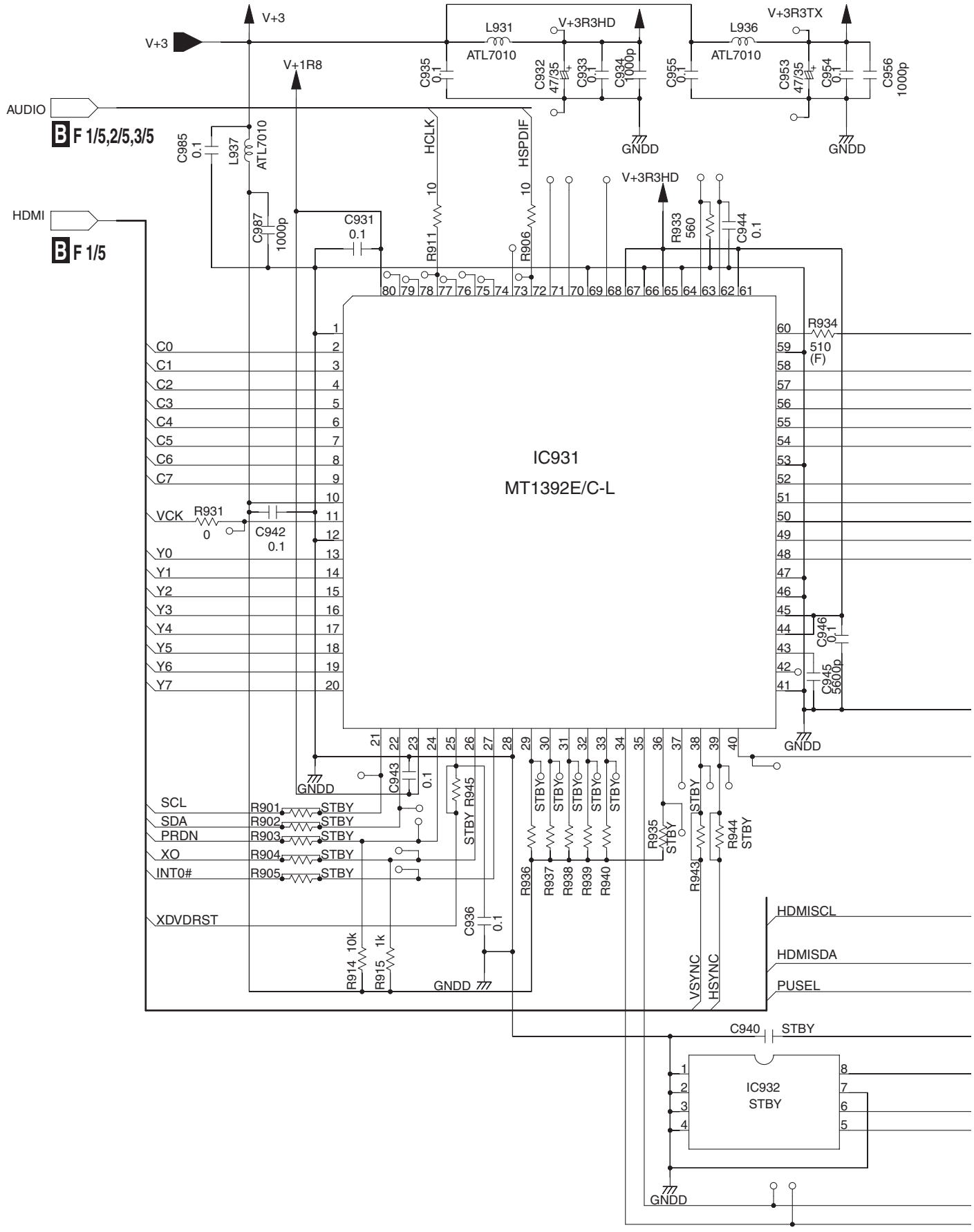
(C/V) : VIDEO SIGNAL ROUTE(C/V)
(S_Y) : VIDEO SIGNAL ROUTE (S_Y)
(S_C) : VIDEO SIGNAL ROUTE (S_C)
(R) : VIDEO SIGNAL ROUTE (R)
(G) : VIDEO SIGNAL ROUTE (G)
(B) : VIDEO SIGNAL ROUTE (B)
(AD) : AUDIO DATA SIGNAL ROUTE

B F 4/5

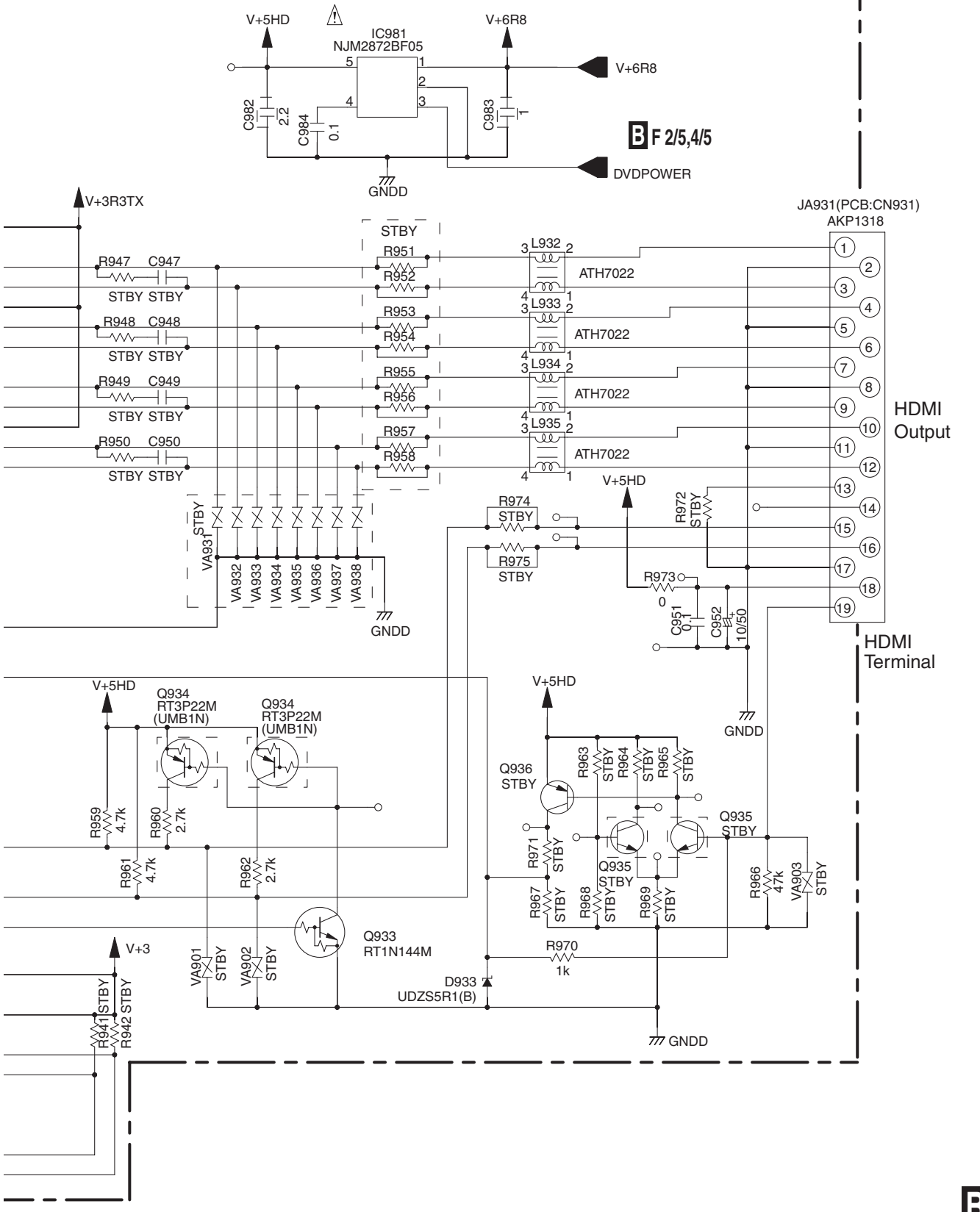
B F 4/5 DVD MAIN ASSY
(XWM3357 : WLXJ)(XWM3358 : NTXJ)
(XWM3360 : TDXJ/RB)(XWM3366 : YPWXJ)



2.5 DVD MAIN ASSY (5/5)

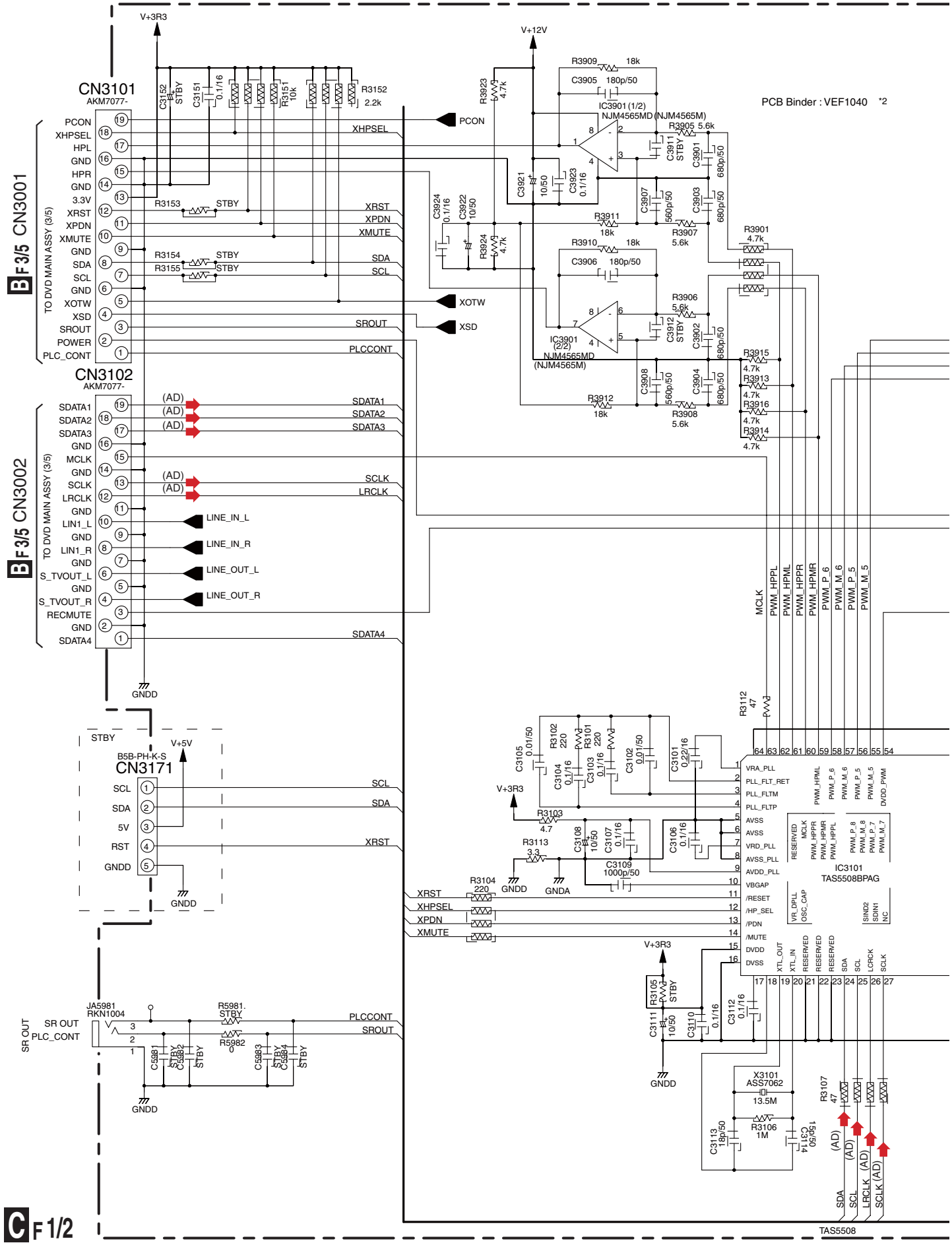


B F 5/5 DVD MAIN ASSY
(XWM3357 : WLXJ)(XWM3358 : NTXJ)
(XWM3360 : TDXJ/RB)(XWM3366 : YPWXJ)

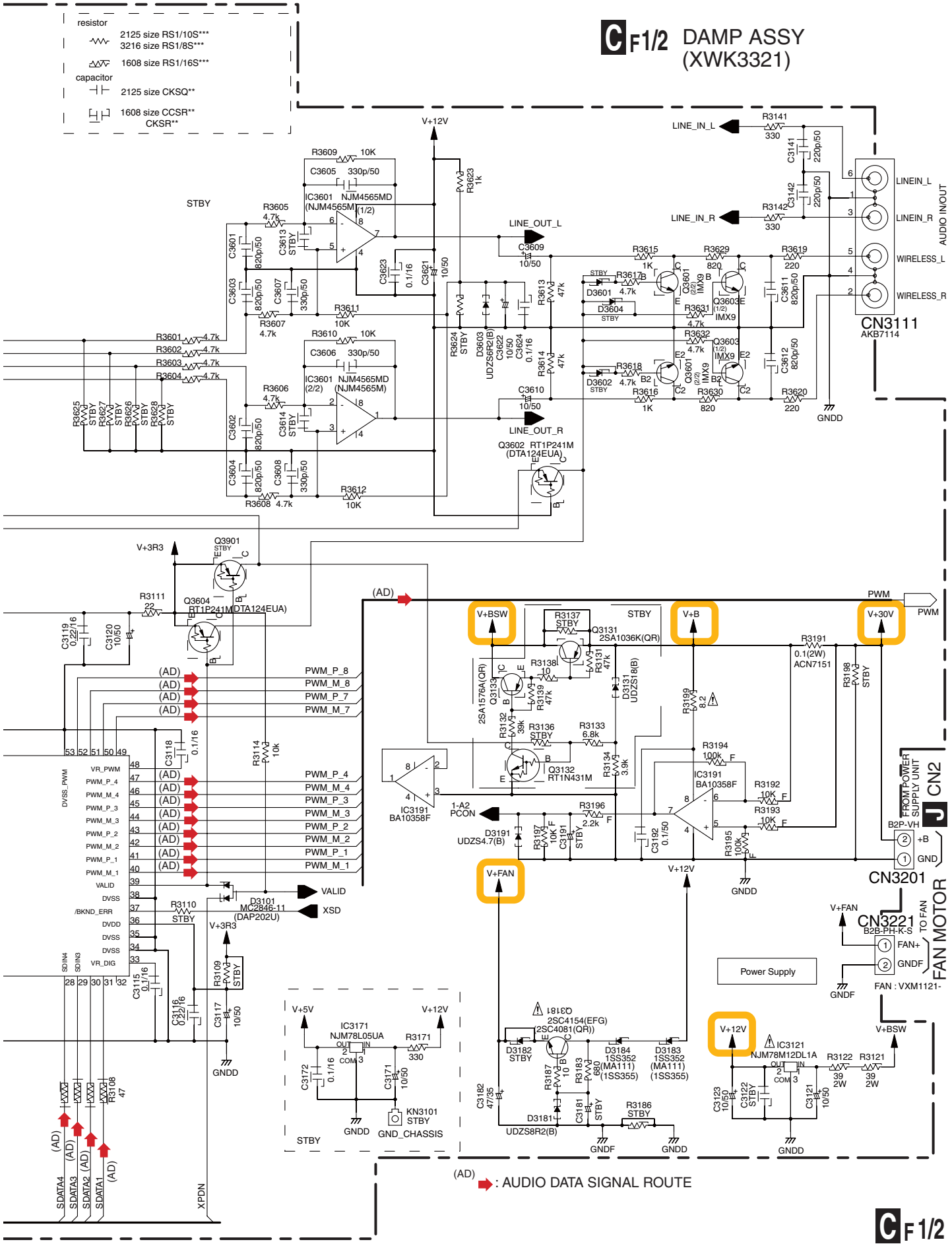


B F 5/5

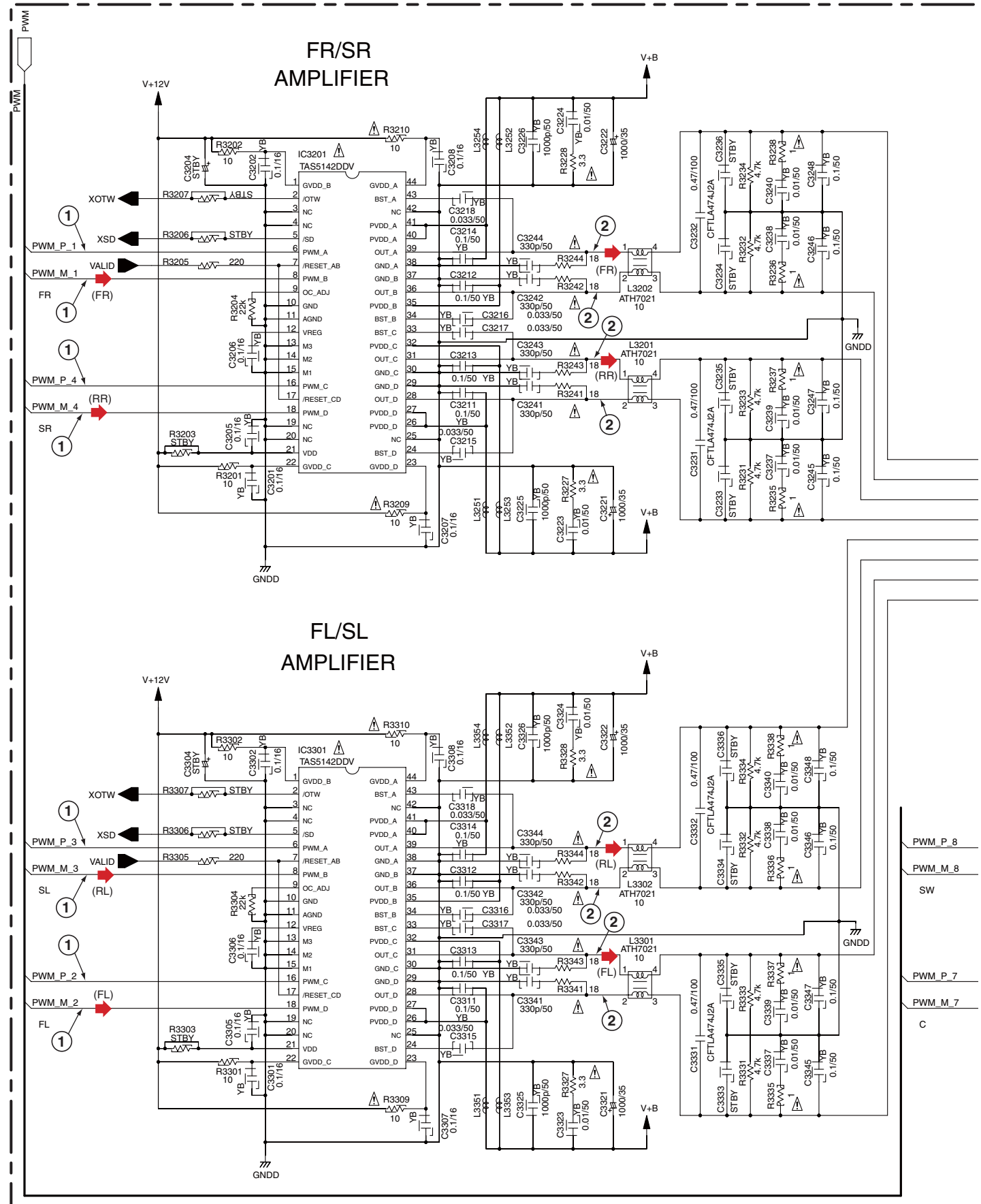
2.6 DAMP ASSY (1/2)



CF1/2 DAMP ASSY (XWK3321)



2.7 DAMP ASSY (2/2)



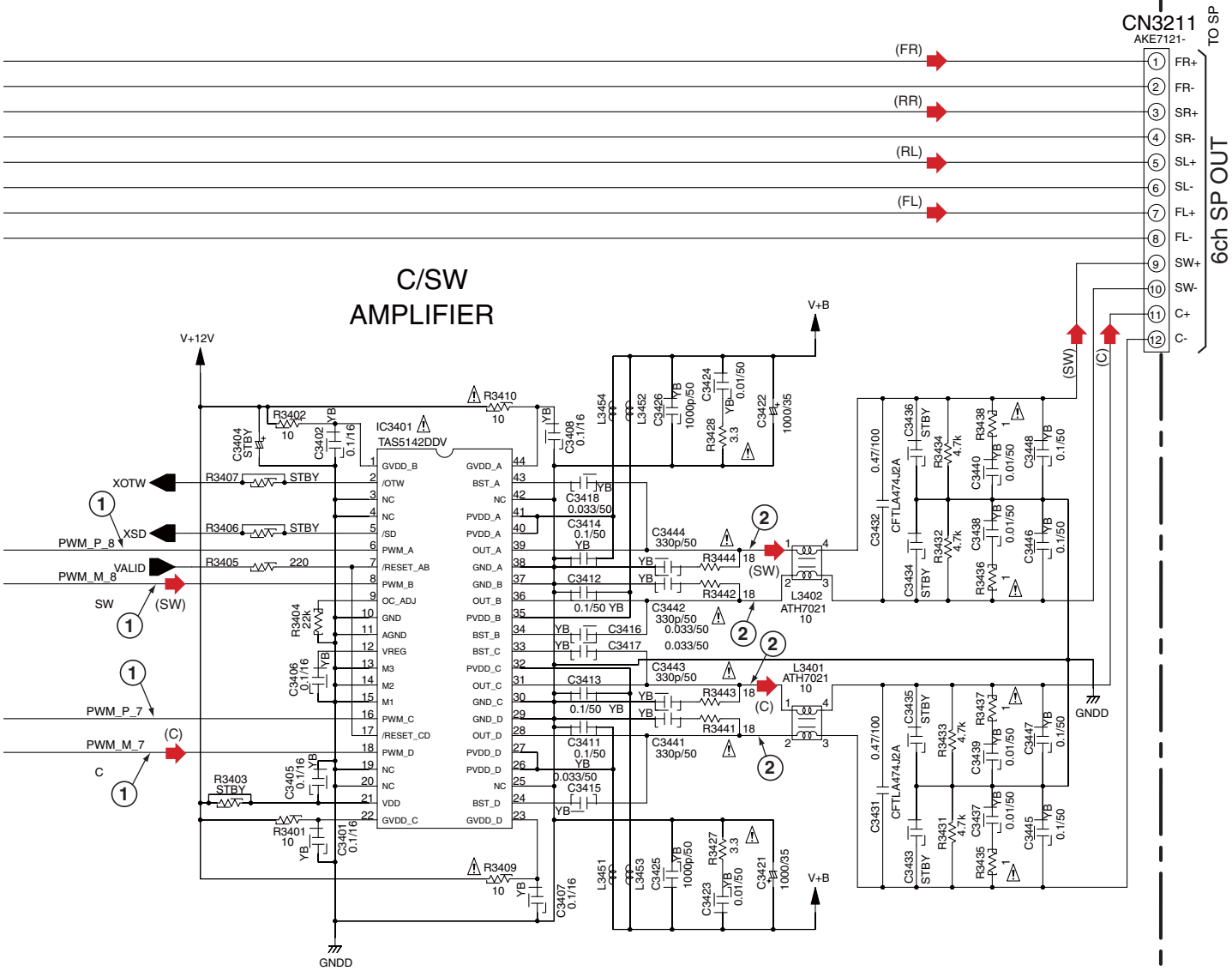
LAYOUT NOTE :
L325X L335X L345X are a track in the PCB.
L:50mm W:1.6mm

C F 2/2

C F 2/2 DAMP ASSY (XWK3321)

Heatsink : ANH7190

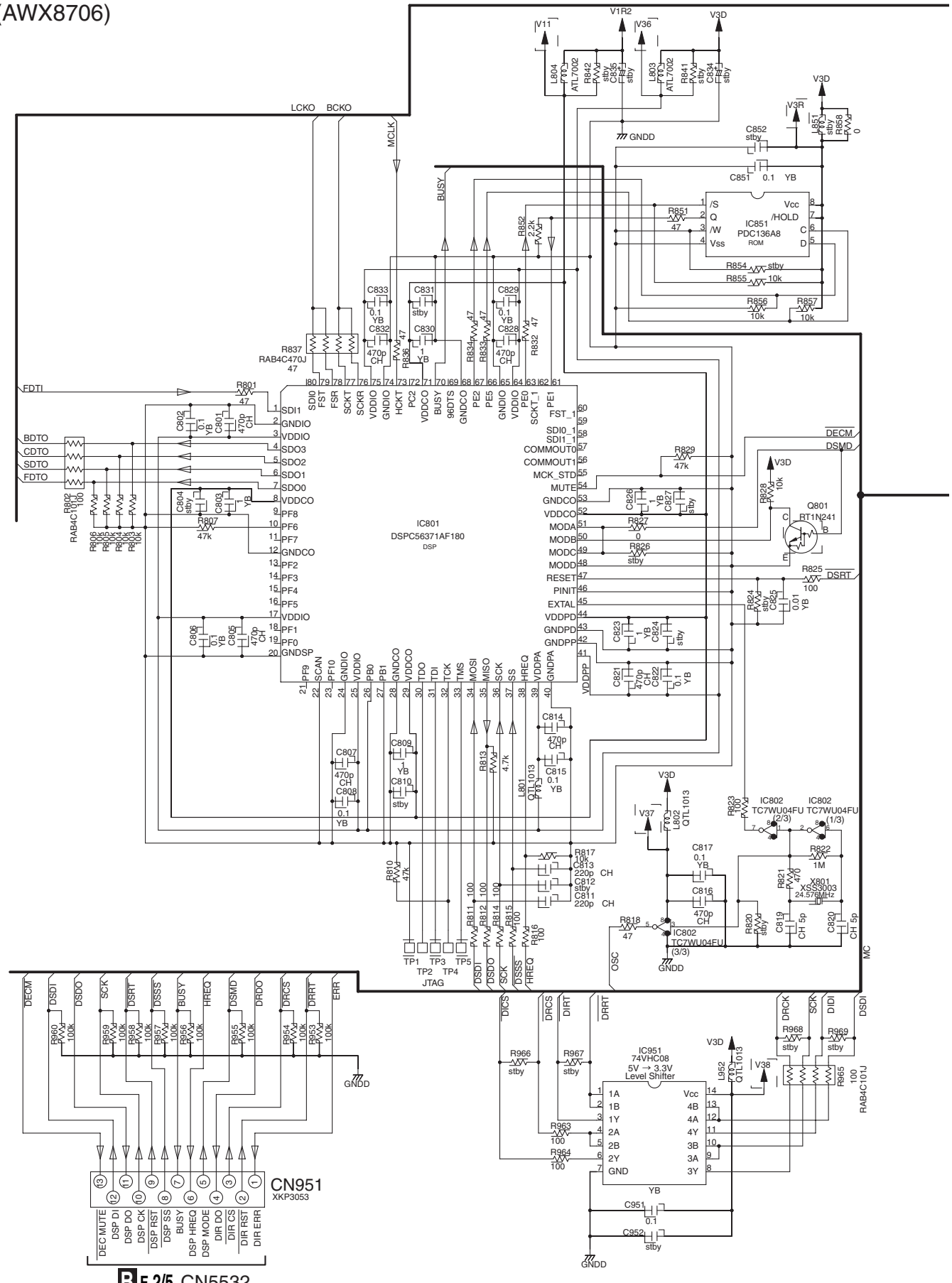
(RL): AUDIO DATA SIGNAL ROUTE (Rear Lch)
(RR): AUDIO DATA SIGNAL ROUTE (Rear Rch)
(FL): AUDIO DATA SIGNAL ROUTE (Front Lch)
(FR): AUDIO DATA SIGNAL ROUTE (Front Rch)
(SW): AUDIO DATA SIGNAL ROUTE (Sub woofer ch)
(C): AUDIO DATA SIGNAL ROUTE (Center ch)



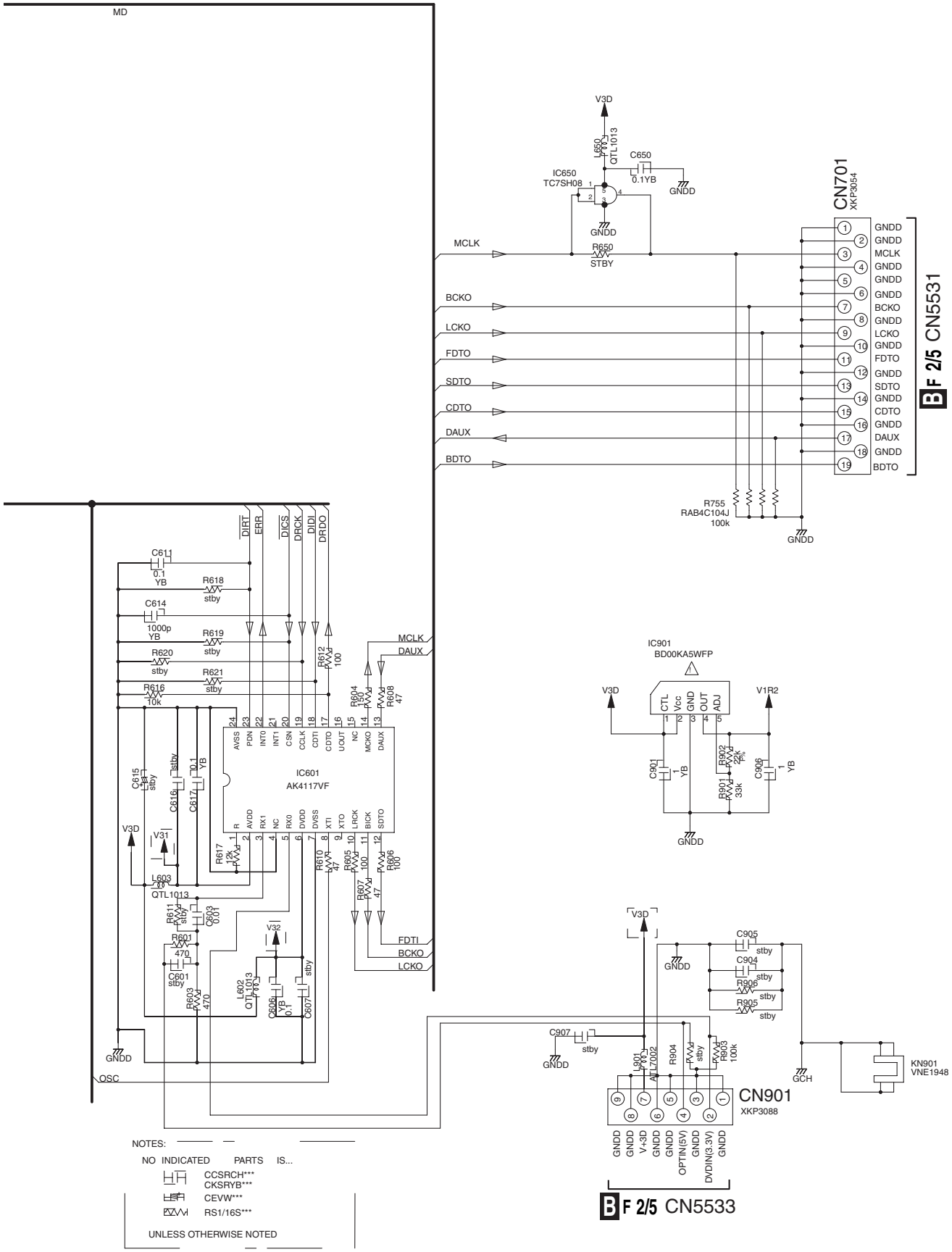
C F 2/2

2.8 DSP ASSY

IF DSP ASSY (AWX8706)



BF 2/5 CN5532

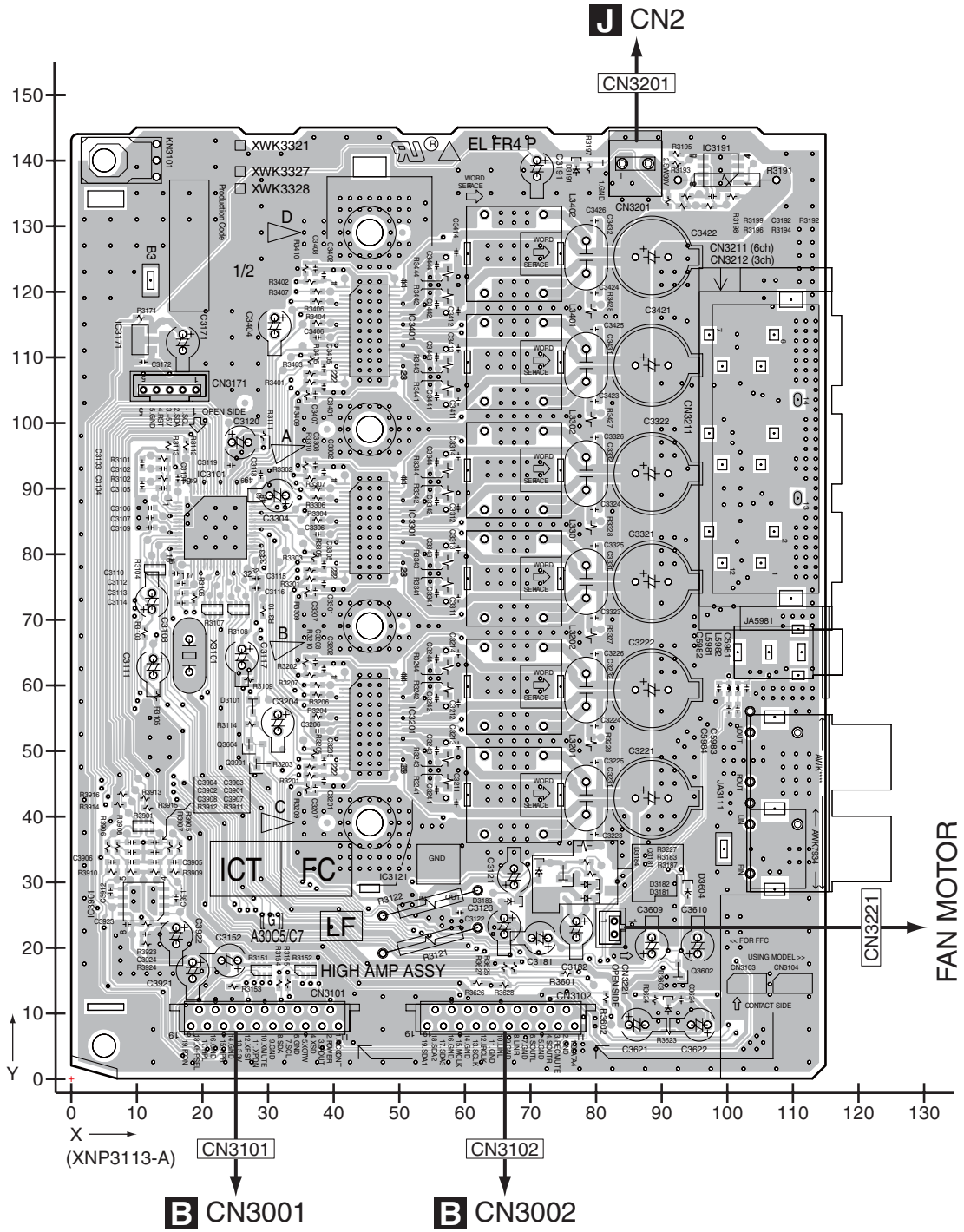

MD
V3D
L650
QTL1013
C650
0.1YB
GNDD
IC650
TC7SH08
R650
STBY
MCLK
BCKO
LCKO
FDTO
SDTO
CDTO
DAUX
BDTO
CN701
XKP3054
GNDD
GNDD
MCLK
GNDD
GNDD
GNDD
BCKO
GNDD
LCKO
GNDD
FDTO
GNDD
SDTO
GNDD
CDTO
GNDD
DAUX
GNDD
BDTO
B F 2/5 CN5531
R755
RAB4C104J
100k
GNDD
DIRT
ERR
DICS
DRCK
DIDI
DRDO
C611
0.1
YB
R618
stby
C614
1000p
YB
R619
stby
R620
stby
R621
stby
R616
10k
R612
100
R604
150
R608
47
MCLK
DAUX
IC601
AK4117VF
AVSS
PDN
INT0
INT1
CSN
CCLK
CDTI
CDTO
UOUT
NC
MCKO
DAUX
R
AVDD
RX1
NC
RX0
DVDD
DVSS
XTI
XTO
LRCK
BICK
SDTO
C615
1
stby
C616
stby
C617
0.1
YB
V3D
V31
R617
12k
L603
0
QTL1013
R611
470
stby
C603
0.01
R601
470
C601
stby
R603
470
L602
QTL1013
V32
C606
0.1
YB
C607
stby
R610
47
R605
100
R606
100
R607
47
FDTI
BCKO
LCKO
GNDD
OSC
IC901
BD00KA5WFP
V3D
CTL
Vcc
GND
OUT
ADJ
V1R2
C901
1
YB
R902
22k
1%
R901
33k
C906
1
YB
GNDD
V3D
C905
stby
GNDD
C904
stby
R905
stby
R905
stby
C907
stby
GNDD
L901
AT7002
R904
stby
R903
100k
GCH
KN901
VNE1948
CN901
XKP3088
GNDD
GNDD
V+3D
GNDD
GNDD
OPTIN(5V)
GNDD
DVDIN(3.3V)
GNDD
B F 2/5 CN5533
NOTES:
NO INDICATED PARTS IS...
CCSRCH***
CKSRYB***
CEVW***
RS1/16S***
UNLESS OTHERWISE NOTED

3. PCB CONNECTION DIAGRAM
3.1 DAMP ASSY

SIDE A

SIDE A

CF DAMP ASSY



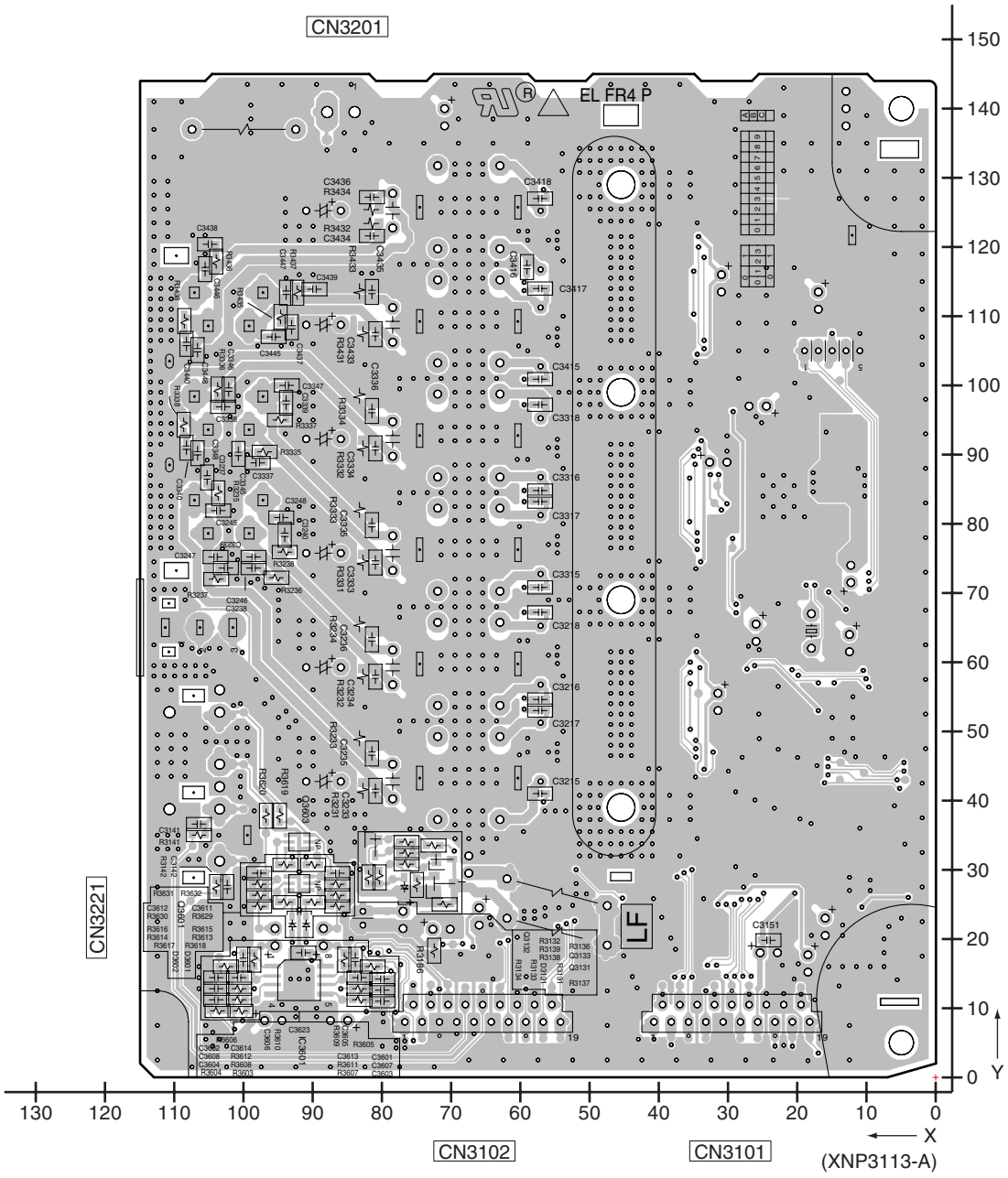
CF

CF

SIDE B

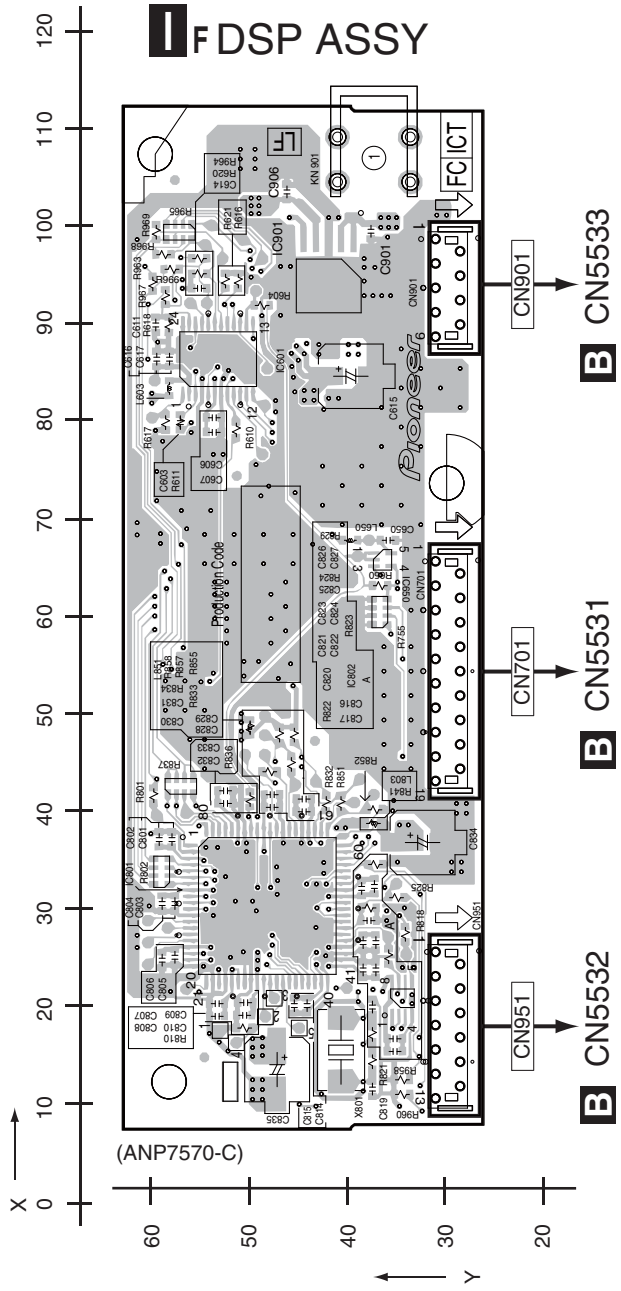
SIDE B

CF DAMP ASSY

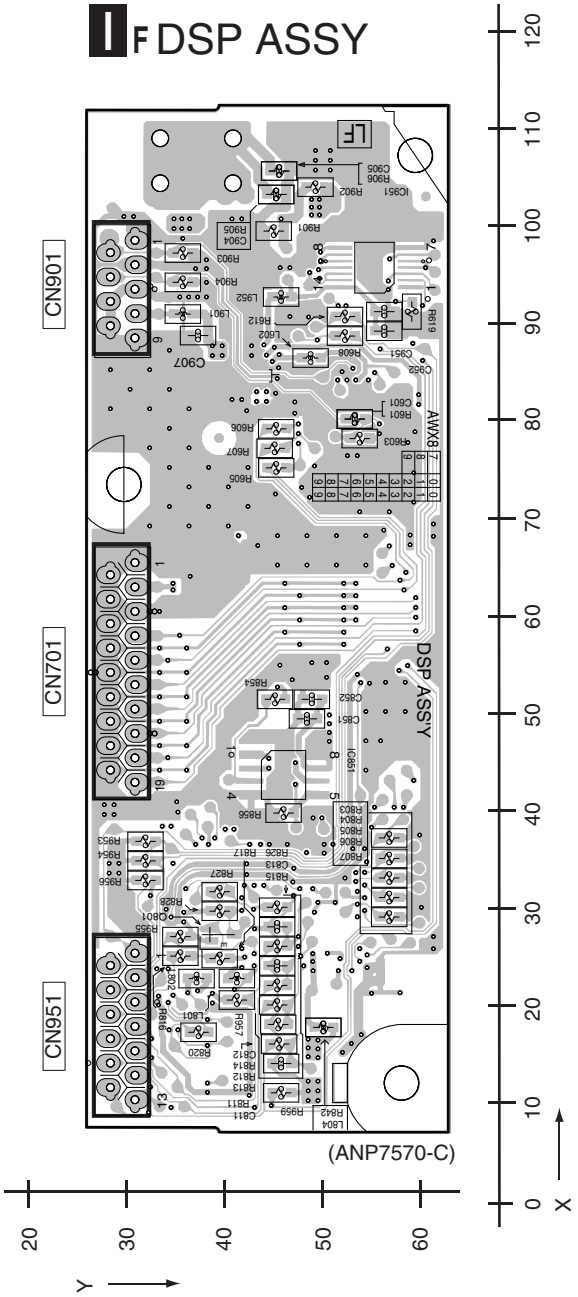


3.2 DSP ASSY

SIDE A



SIDE B



Pioneer sound.vision.soul

Service Manual

XV-DV370

ORDER NO.
RRV3592

DVD/CD RECEIVER

XV-DV370

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Regional restriction codes (Region No.)	Remarks
XV-DV370	KUCXJ	AC 120 V	1	

For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2007**

T-ZZK MAY 2007 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 Ð Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

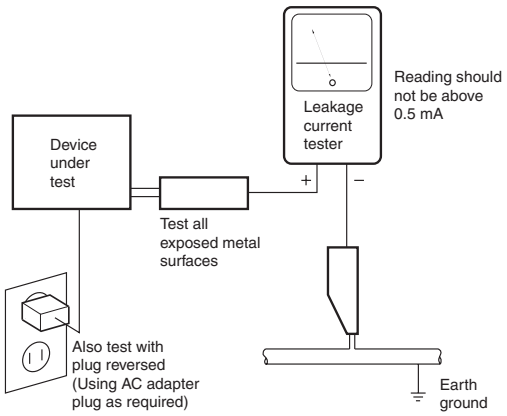
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

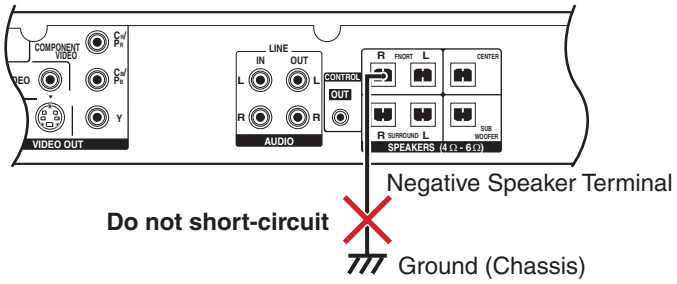
Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

1.2 CAUTION

NOTES ON BTL DRIVE

As a signal to drive the BTL is output from the negative speaker terminal, DO NOT short-circuit between the negative speaker terminal and ground, such as the chassis.
Do not short-circuit between the plus speaker terminal and ground, such as the chassis, too.



2. SPECIFICATIONS

2.1 SPECIFICATIONS and ACCESORRIES

Amplifier section
Continuous Power Output (FTC):
Front, Center, Surround
. . . . . 15 W per channel*
(200 Hz to 20 kHz, 1.0 % T.H.D., 4 Ω)**
Subwoofer. . . . . 20 W*
(45 Hz to 200 Hz, 1.0 % T.H.D., 4 Ω)**
RMS Power Output:
Front, Center, Surround . . .60 W per channel
(1 kHz, 10 % T.H.D., 4 Ω)
Subwoofer . . 60 W (100 Hz, 10 % T.H.D., 4 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.
** Measured by audio spectrum analyzer.

• Disc section
Digital audio characteristics
. . . . . DVD fs: 96 kHz, 24-bit
Type. . . . . DVD system, Video CD/Super VCD system and Compact Disc digital audio system
Frequency response
. . . . . 4 Hz to 44 kHz (96 kHz sampling) / 4 Hz to 22 kHz (48 kHz sampling)
Wow and Flutter . . . . . Limit of measurement (±0.001 % W.PEAK) or less (JEITA)

• FM tuner section
Frequency range. . . . . 87.5 MHz to 108 MHz
Antenna. . . . . 75 Ω, unbalanced

• AM tuner section
Frequency range:
With 9 kHz step. . . . . 531 kHz to 1602 kHz
With 10 kHz step. . . . . 530 kHz to 1700 kHz
Antenna . . . . . Loop antenna

• Miscellaneous
Power requirements
. . . . . AC 120 V, 60 Hz
Power consumption. . . . . 45 W
Power consumption in standby. . . . . 0.25 W
Dimensions
. . . . . 420 mm (W) x 60 mm (H) x 332 mm (D)
($16\frac{9}{16}$ in.(W) x $2\frac{3}{8}$ in.(H) x $13\frac{1}{16}$ in.(D))
Weight . . . . . 3.1 kg / 6 lb. 13 oz.

• Accessories (DVD/CD receiver)
Remote control 1
AA/R6 dry cell batteries
(to confirm system operation) 2
Video cable (yellow plugs). 1
AM loop antenna 1
FM antenna 1
Power cord. 1
Warranty card 1
Setup Guide
Operating instructions

Manufactured under license from Dolby Laboratories."Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.

Disc/content format playback compatibility

This player is compatible with a wide range of disc types (media) and formats. Playable discs

on the disc and/or disc packaging. Note however that some disc types, such as recordable CD and DVD, may be in an unplayable format.

See the Disc compatibility table below for more information.

DVD-Video DVD-R DVD-RW

Audio CD CD-R Video CD CD-RW

Fujicolor CD

•This unit will play DVD+R/+RW discs.

• is a trademark of FUJIFILM Corporation.

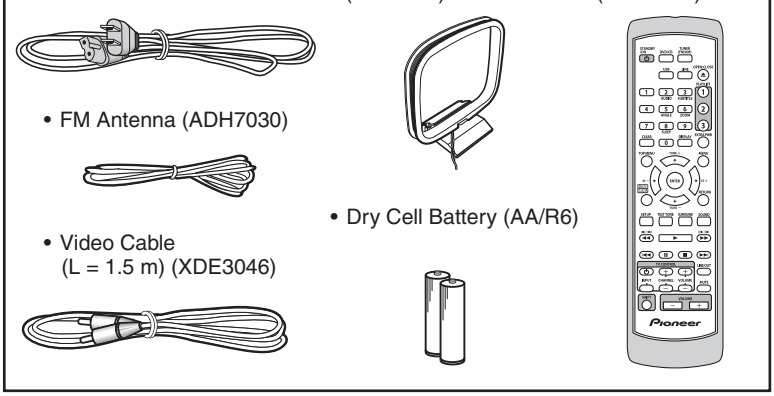
• is a trademark of DVD Format/Logo Licensing Corporation.

•Also compatible with KODAK Picture CD.

This player supports the IEC's Super VCD standard for superior picture quality, dual soundtracks, and widescreen support.

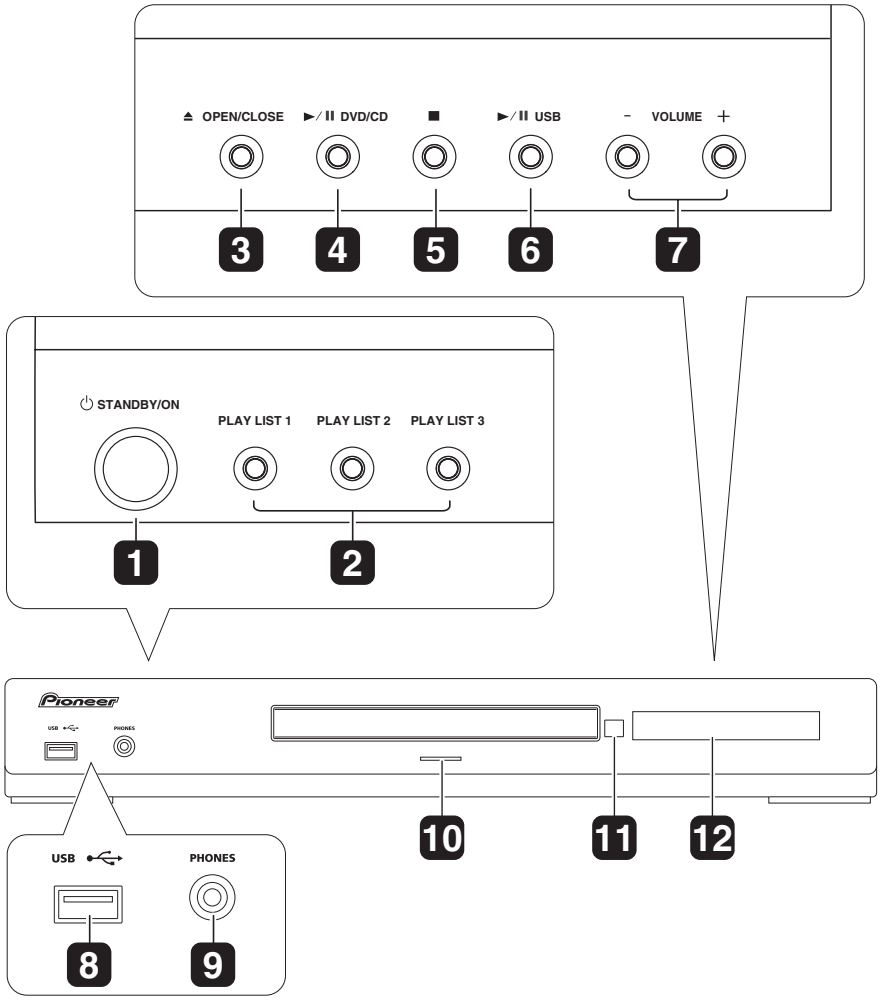
Super Video CD (Super VCD)

● Accessories


• Power Cord (ADG7021)
• AM Loop Antenna (ATB7013)
• Remote Control (XXD3121)
• FM Antenna (ADH7030)
• Dry Cell Battery (AA/R6)
• Video Cable (L = 1.5 m) (XDE3046)

2.2 PANEL FACILITIES

Front panel



1 ⏻ STANDBY/ON
Switches the system on or into standby.

2 PLAY LIST buttons
Add tracks (during playback), or select a playlist (while stopped).

3 ⏏ OPEN/CLOSE
Opens/closes the disc tray.

4 ►/II DVD/CD
Selects the DVD/CD function and starts/pauses/resumes playback.

5 ■
Stops playback.

6 ►/II USB
Selects the USB function and starts/pauses playback.

7 VOLUME +/– buttons

8 USB interface
Connect a USB device for playback.

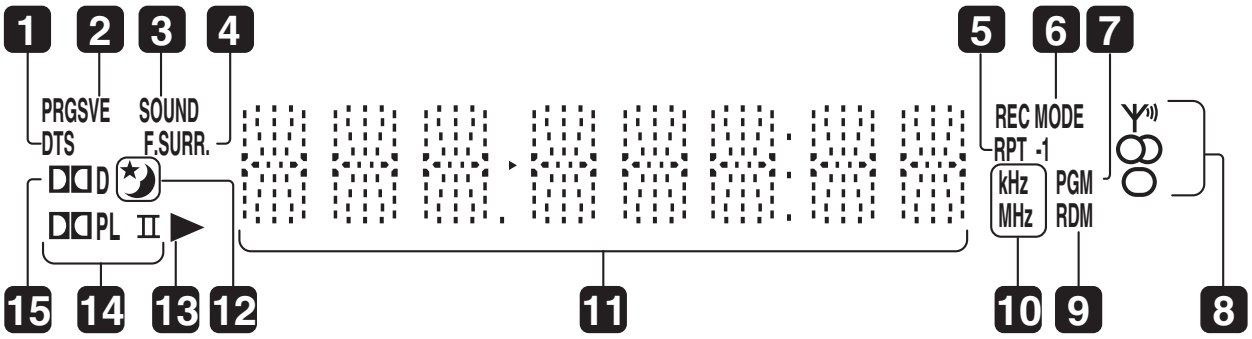
9 PHONES jack
Connect headphones.

10 Indicator
Lights blue when the power is on (except when the dimmer/sleep timer is active).

11 Remote Sensor

12 Display
See Display next pase.

Display



1 DTS
Lights during playback of a DTS source.

2 PRGSVE
Lights when progressive scan video output is selected.

3 SOUND
Lights when the SFC Modes or the tone controls (treble, bass or bass boost) are active.

4 F.SURR.
Lights when the Extra Power mode is selected.

5 RPT and RPT-1
RPT lights during repeat play. **RPT-1** lights during repeat one-track play.

6 REC MODE
Lights when Line Out mode is on.

7 PGM
Lights during program or playlist playback.

8 Tuner indicators
– Lights when a broadcast is being received.

– Lights when a stereo FM broadcast is being received in auto stereo mode.

– Lights when FM mono reception is selected.

9 RDM
Lights during random play.

10 kHz/MHz
Indicates the frequency unit shown in the character display (**kHz** for AM, **MHz** for FM).

11 Character display

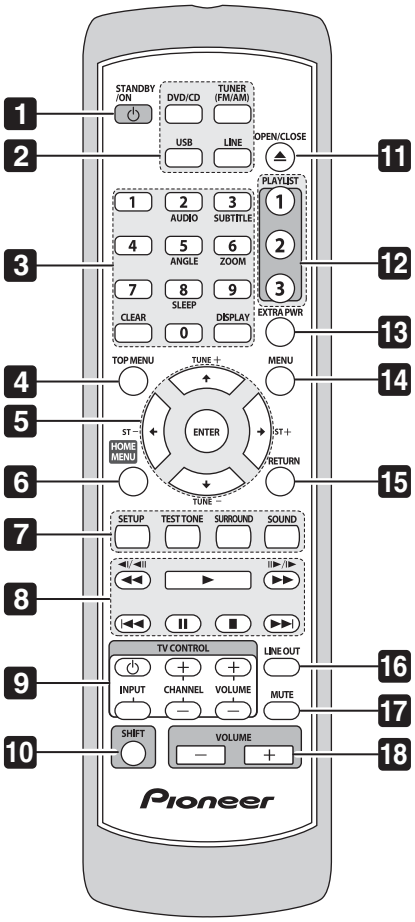
12
Lights when sleep timer is active.

13 ►
Lights during playback.

14 PL II
Lights during Dolby Pro Logic II decoding.

15 D
Lights during playback of a Dolby Digital source.

Remote control



1 ⏻ STANDBY/ON
Switches the system on or into standby.

2 Function select buttons
Selects the source you want to listen to (DVD/ CD,TUNER,USB,LINE).

3 Number buttons, CLEAR, DISPLAY, SLEEP and DVD controls

CLEAR
Clears an entry.

DISPLAY
Displays/changes disc information shown on-screen.

SHIFT+SLEEP
Press to set the sleep timer.

SHIFT+AUDIO
Selects audio channel/language.

SHIFT+SUBTITLE
Displays/changes the subtitles.

SHIFT+ANGLE
Changes camera angle during DVD multi-angle scene playbac.

SHIFT+ZOOM
Changes the screen zoom level.

4 TOP MENU
Displays the top menu of a DVD disc in the play position — this may be the same as pressing **MENU**.

5 Cursor buttons, ENTER and tuning buttons

Cursor buttons
Use the cursor buttons (⬆/⬇/⬅/➡) to navigate on-screen displays and menus.

ENTER
Selects an option or executes a command.

TUNE +/–
Tunes the radio.

ST +/–
Selects station presets when listening to the radio.

6 HOME MENU
Displays (or exits) the on-screen menu for Initial Settings, Play Mode functions, etc.

7 Setup and other sound controls

SETUP
Use to make various system and surround sound settings.

TEST TONE
Outputs the test tone (for speaker setup).

SURROUND
Selects a Surround mode or switches to stereo playback.

SOUND
Accesses the sound menu to adjust the SFC Mode, bass and treble, etc.

8 Playback controls
See Basic playback controls on, Disc playback features on and USB playback for an explanation of these controls.

9 TV CONTROL buttons
These control Pioneer plasma televisions.

10 SHIFT
Press to access the controls highlighted in green.

11 ⏏ OPEN/CLOSE
Opens/closes the disc tray.

12 PLAYLIST buttons
Add tracks (during playback), or select a playlist (while stopped).

13 EXTRA PWR
Switches on the Extra Power mode.

14 MENU
Press to display a DVD disc or USB menu, or the Navigator.

15 RETURN
Returns to a previous menu screen.

16 LINE OUT
Cycle whether or not to output a downmixed signal from the LINE OUT terminal.

17 MUTE
Mutes the sound (press again to cancel).

18 VOLUME +/–
Adjusts the volume.

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Check points after servicing (HTZ and system audio)

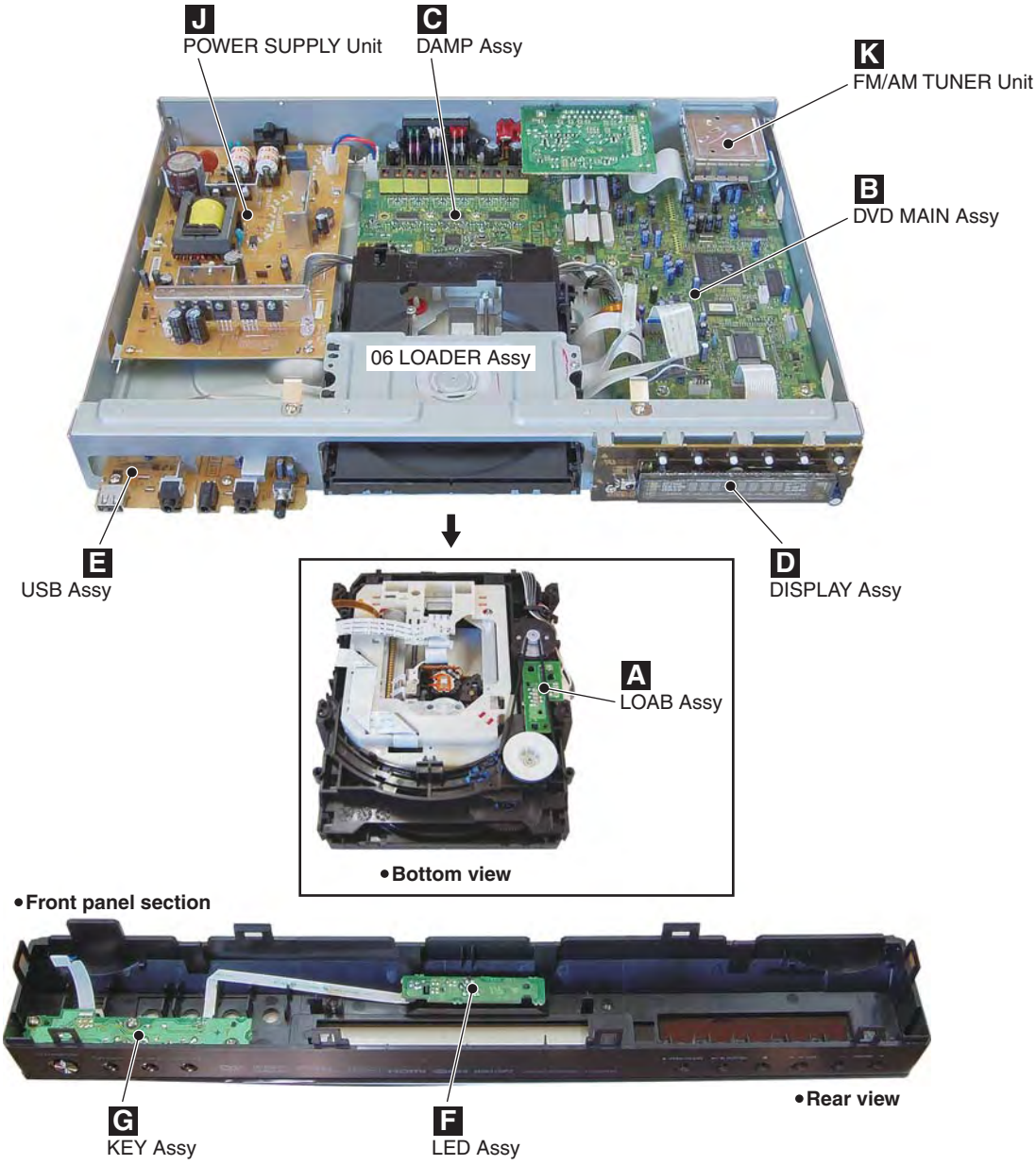
To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Check points
1	Confirm the firmware version on Service Mode.	The version of the firmware must be latest. Update firmware to the latest one, if it is not the latest.
2	Confirm whether the customer complain has been solved. If the customer complain occurs with the specific disc, use it for the operation check.	The customer complain must not be reappeared. Video, audio and operations must be normal.
3	Confirm playback error rates at the innermost and outermost tracks by using the following disc. DVD test disc (GGV1025)	The error rates must be less than 5.0e-4.
4	Play back a CD. (track search)	Audio and operations must be normal.
5	Play back a DVD. (Menu operation, Title/chapter search)	Video, audio and operations must be normal.
6	Check the tuner (AM and FM) operations.	Audio and operations must be normal.
7	Check the sound from headphone output.	Sound must be normal, without noise.
8	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

Item to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

3.2 PCB LOCATIONS



Mark	No.	Description	Part No.
		LIST OF ASSEMBLIES	
	1	..DAMP ASSY	XWK3318
	1	..DVD MAIN ASSY	XWM3343
NSP	1	..COMPLEX ASSY	XWM3372
	2	..DISPLAY ASSY	XWZ4256
	2	..USB ASSY	XWZ4259
	2	..KEY ASSY	XWZ4261
	2	..LED ASSY	XWZ4263
⚠	1	..POWER SUPPLY UNIT	XWR3014
	1	..FM/AM TUNER UNIT	AXX7250

3.3 JIGS LIST

■ Jigs list

Name	Jig No.	Remarks
Service Remote Control Unit	GGF1381	adjustment, diagnosis
DVD Test Disc (DVD-Video)	GGV1025	Check of DVD-Video
CD Test Disc	STD-905	Check of CD
DVD Data Disc	GGV1269	ID data setting
Speaker Cable with terminal	SDS1174 (FL/WHITE) SDS1175 (FR/RED), SDS1176 (SL/BLUE) SDS1177 (SR/GRAY), SDS1178 (C/GREEN)	For checking audio at the SP terminal

■ Lubricants and Glues list

Name	Lubricants and Glues No.	Remarks
Lubricating Oil	GYA1001	refer to "9.3 06 LOADER ASSY"
Daifree	GEM1036	refer to "9.3 06 LOADER ASSY"
Silicone Adhesive	GEM1037	refer to "9.4 TRAVERSE MECHANISM ASSY-S"
Screw tight	GYL1001	refer to "8.1.5 MECHANISM ADJUSTMENT"

3.4 CLEANING

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Pickup leneses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

A

B

C

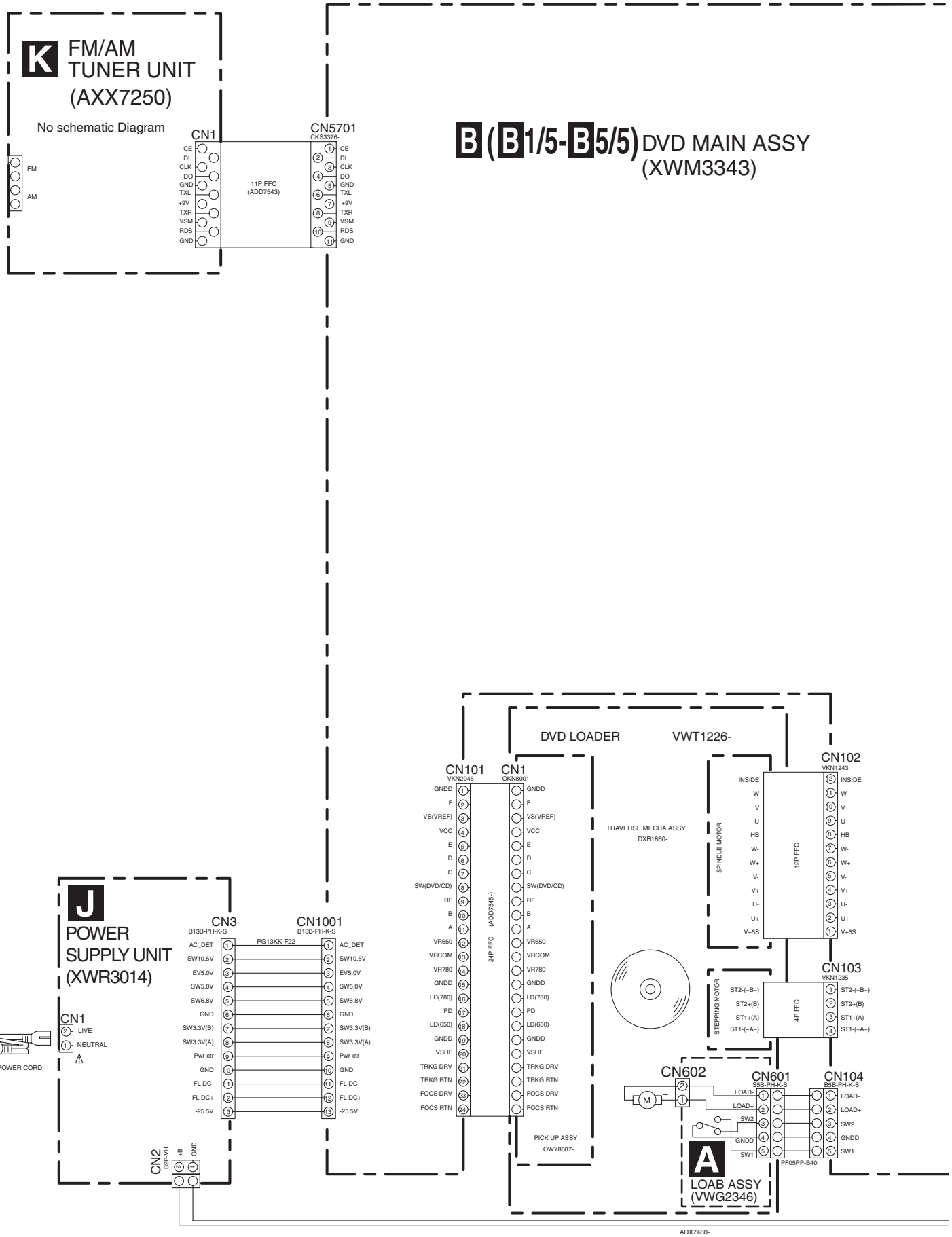
D

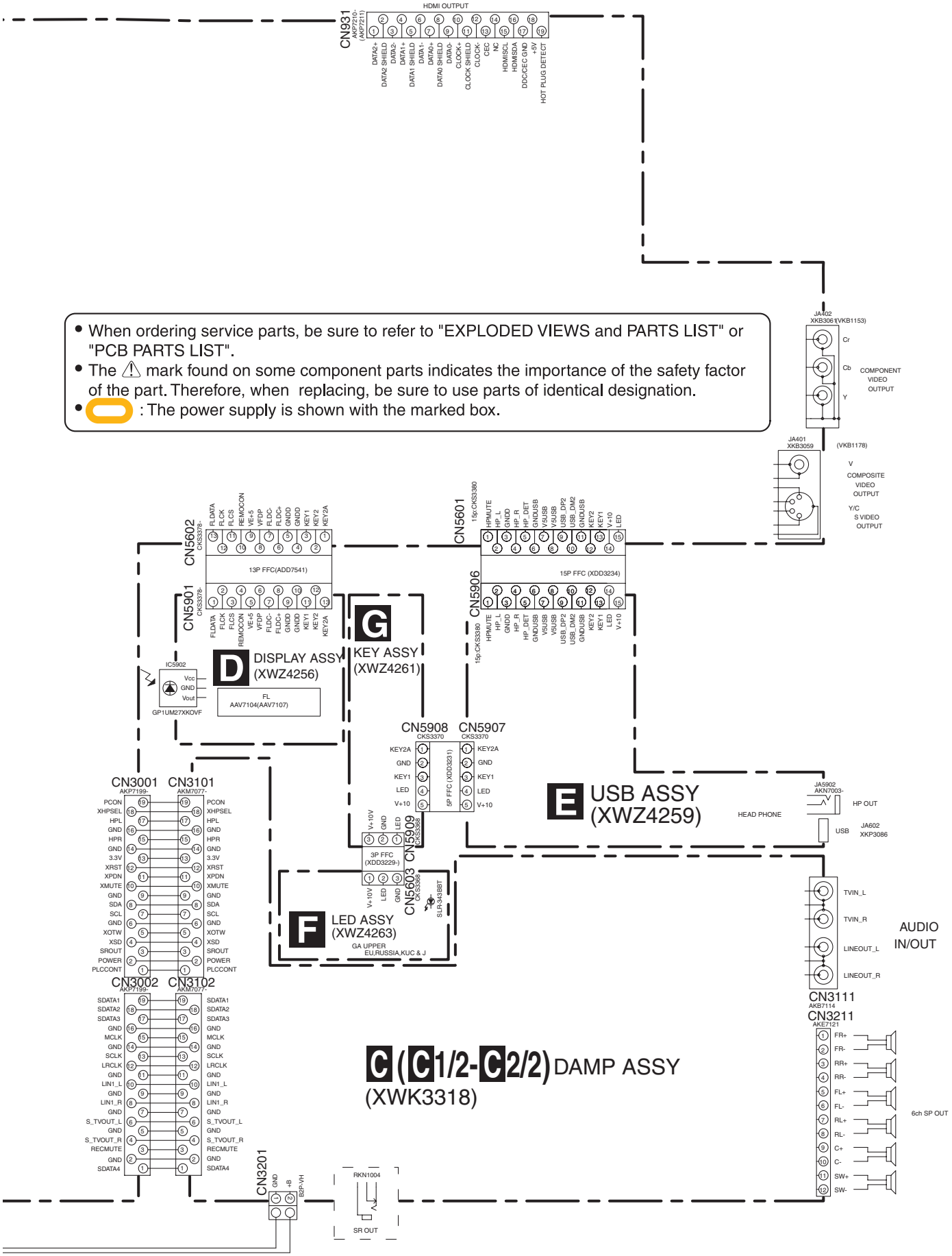
E

F

4. BLOCK DIAGRAM

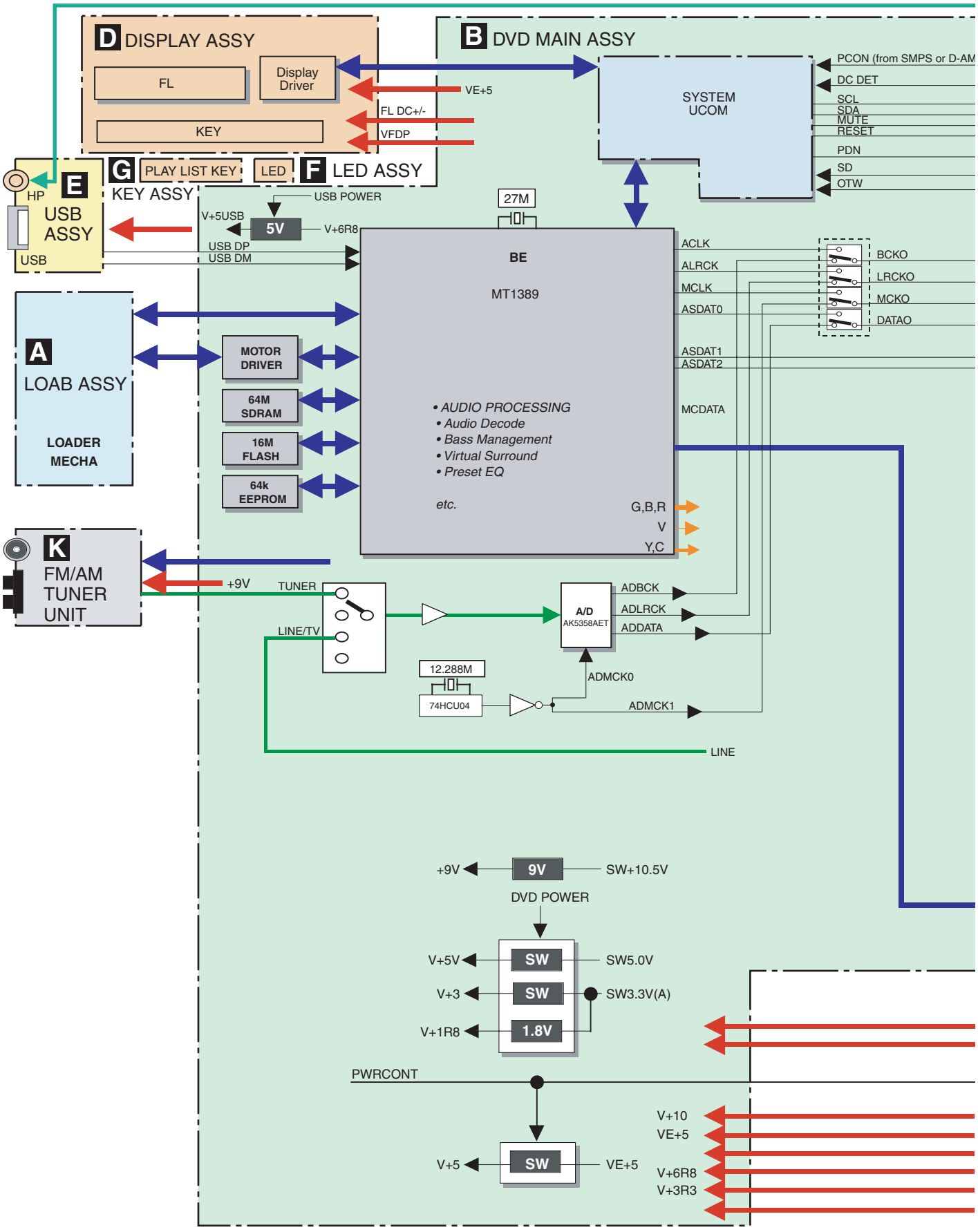
4.1 OVERALL WIRING CONNECTION DIAGRAM and LOAB ASSY

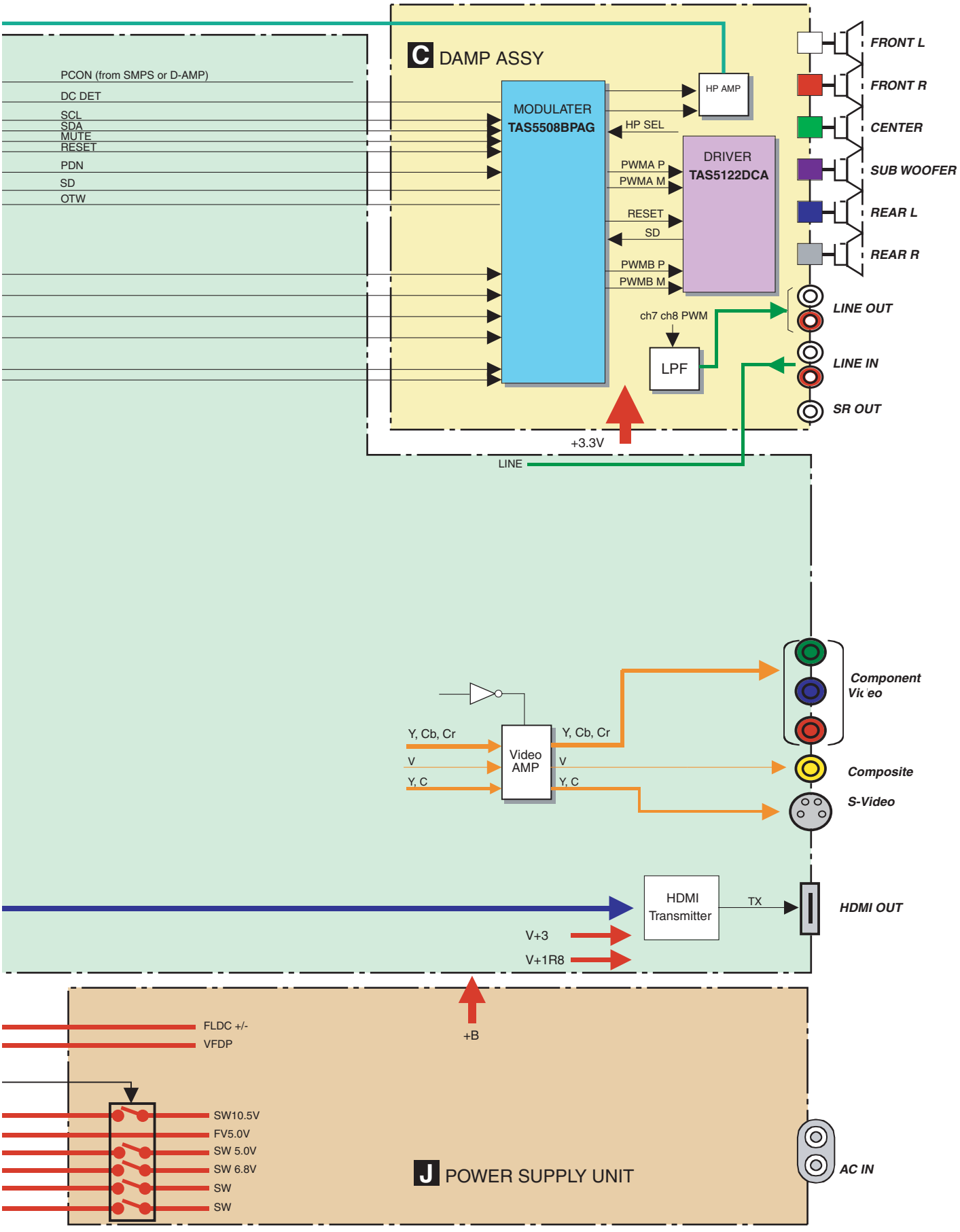




- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

4.2 OVERALL BLOCK DIAGRAM




C DAMP ASSY
PCON (from SMPS or D-AMP)
DC DET
SCL
SDA
MUTE
RESET
PDN
SD
OTW
MODULATER
TAS5508BPAG
HP AMP
HP SEL
DRIVER
TAS5122DCA
PWMA P
PWMA M
RESET
SD
PWMB P
PWMB M
ch7 ch8 PWM
LPF
+3.3V
LINE
FRONT L
FRONT R
CENTER
SUB WOOFER
REAR L
REAR R
LINE OUT
LINE IN
SR OUT
Y, Cb, Cr
V
Y, C
Video AMP
Y, Cb, Cr
V
Y, C
Component Video
Composite
S-Video
HDMI Transmitter
TX
HDMI OUT
V+3
V+1R8
+B
FLDC +/-
VFDP
SW10.5V
FV5.0V
SW 5.0V
SW 6.8V
SW
SW
J POWER SUPPLY UNIT
AC IN

5. DIAGNOSIS

5.1 METHOD FOR DIAGNOSING DEGRADATION OF THE LDS ON THE PICKUP

Case when this diagnosis is required :
When playback of any disc, including a test disc (DVD: GGV1025, CD: STD-905), won't play or doesn't play

How to diagnose

In the case mentioned above, degradation of the laser diodes (LDs) mounted on the 06SD Pickup Assy-S is suspected. Measure the voltage between the two ends of one of the resistors mentioned below.

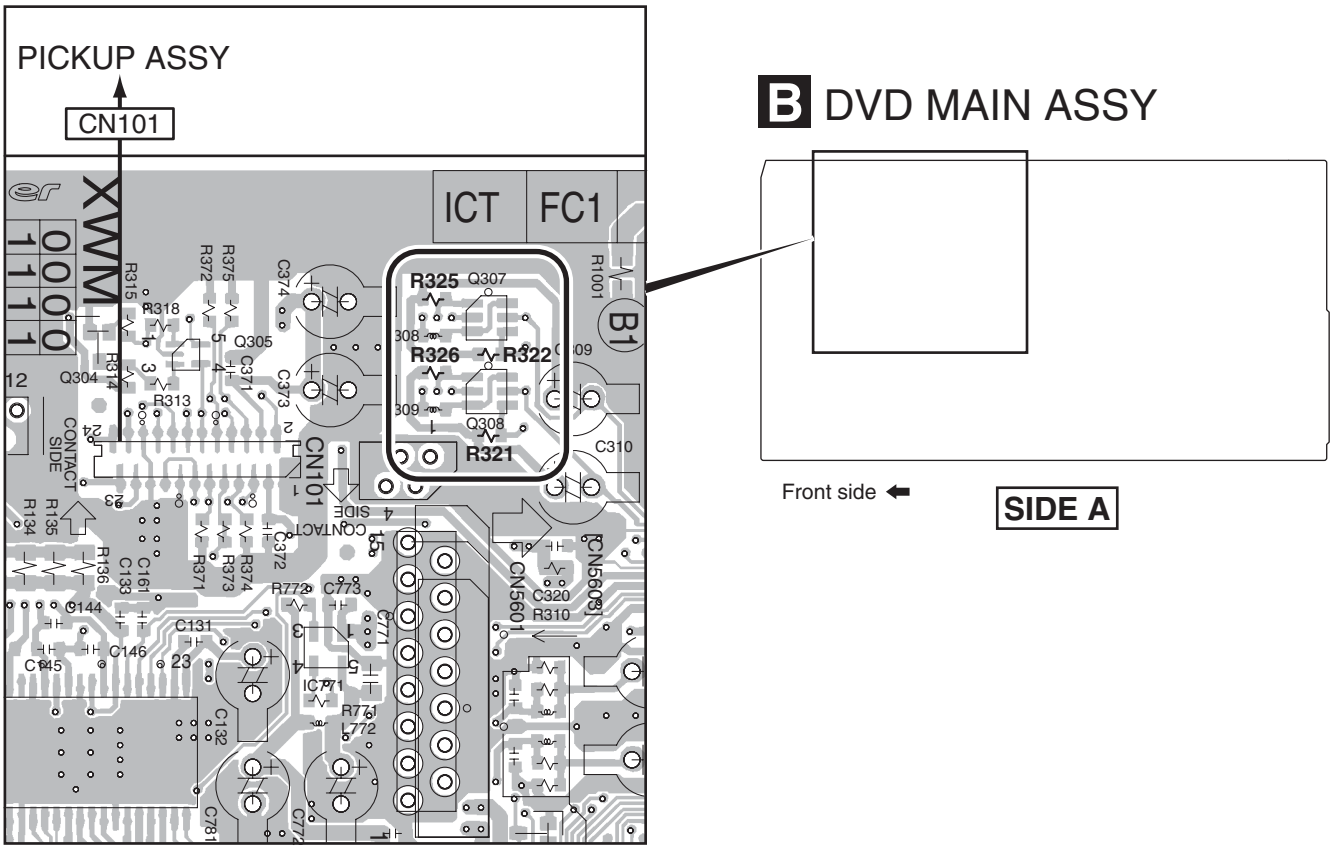
- **No playback of a DVD :**

  Measure the voltage between the both ends of R322 or R325 on the DVD MAIN Assy. If the voltage is 0.4 V or higher, the 650-nm LD is degraded.

- **No playback of a CD :**

  Measure the voltage between the both ends of R321 or R326 on the DVD MAIN Assy. If the voltage is 0.4 V or higher, the 780-nm LD is degraded.

If the measurements show degradation of an LD, replace the 06SD Pickup Assy-S.



5.2 DVD TROUBLE SHOOTING

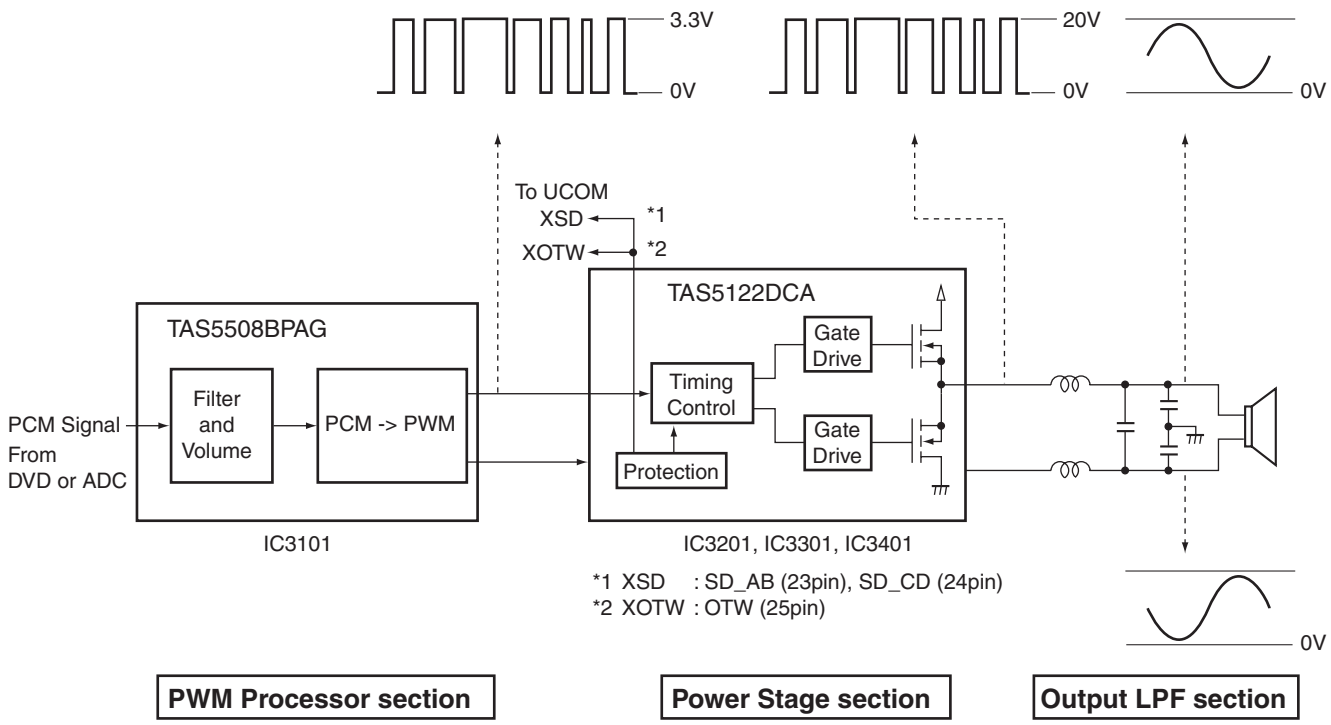
No.	Symptoms	Diagnosis Contents	Possible Defective Points
1	The power is not turned on.	Are wires of output connector (POWER SUPPLY Unit) and CN1001 (DVD MAIN Assy) disconnected or damaged ?	Connector / cable
		Check that the following voltage is output : Q1202-source on the DVD MAIN Assy: 3.3V	**POWER SUPPLY Unit**
2	An opening screen is not displayed on the monitor (The FL display lights. The mechanism does not work.)	Are the signals output from IC201-pin 97 (MDATA) and pin 98 (SCLK) on the DVD MAIN Assy ? (in the range of 0-3V)	**DVD MAIN Assy** DVD IC (IC201)
		Are the signals input into IC5501-pin 50 (MDATA) and pin 51 (SCLK) on the DVD MAIN Assy ? (in the range of 0-3V)	**DVD MAIN Assy** UCOM (IC5501)
		Check that the following voltage are output : Q1302-collector on the DVD MAIN Assy: 5V	**DVD MAIN Assy** 5V Regulator IC (IC751)
		Is a resonator (X201: 27MHz) on the DVD MAIN Assy oscillating ?	**DVD MAIN Assy** Crystal resonator (X201) DVD IC (IC201)
		• Is a signal input into IC203-pin26 (PCE#) on the DVD MAIN Assy ? (Is a signal "H" for 80 mS and then "L" after the power is turned on ?) -> Communication with flash ROM. • Are the signals input into IC202-pin 16 (DWE#), pin 19 (DCS#) and pin 38 (SDCLK) on the DVD MAIN Assy ? (Is a signal fluctuating ?) -> Communication with SDRAM	**DVD MAIN Assy** DVD IC (IC201) Flash ROM (IC203) SDRAM (IC202)
		Is a signal output from IC203-pin 28 (PRD#) on the DVD MAIN Assy? (Is a signal fluctuating for several hundred mS after the power is turned on ?)	**DVD MAIN Assy** Flash ROM (IC203)
		Is a signal input into IC5501-pin 67 (DVD ACK) on the DVD MAIN Assy ? (Is a signal fluctuating ?) -> Communication with FL Control IC	**DVD MAIN Assy** DVD IC (IC201) UCOM (IC5501)
		Is a signal output from IC5501-pin 78 (XREADY) on the DVD MAIN Assy ? (Is a signal fluctuating in the range of 0-5V ?)	**DVD MAIN Assy** UCOM (IC5501)
		Are the signals output from IC5501-pin 49 (SDATA) on the DVD MAIN Assy ? (in the range of 0-5V)	**DVD MAIN Assy** DVD IC (IC201) UCOM (IC5501)
		Are the signals of IC204-pin 5 (SDA) and pin 6 (SCL) on the DVD MAIN Assy fluctuating for one or two seconds after the power is turned?	**DVD MAIN Assy** EEPROM (IC204)
3	An opening screen is not displayed on the monitor (The FL display lights. The mechanism works.)	Check the video signal path between DVD IC (DVD MAIN Assy IC201) and video-out terminal (see the block diagram)	**DVD MAIN Assy** Video circuitafter DVD IC (IC201)

No.	Symptoms	Diagnosis Contents	Possible Defective Points
4	A tray cannot be opened. (An opening screen is displayed on the monitor)	Does the voltage of CN104-pin 3 and pin 5 on the DVD MAIN Assy change normally ? Pin 3 (SW2(TRIN)): Tray is fully closed: "L" Pin 5 (SW1(TROUT)): Tray is fully opened: "L"	**LOAB Assy** Tray SW (S101)
		Is the signal input into IC101-pin 11 (TROPEN) on the DVD MAIN Assy? At open: 3.3V, At close: 0V	**DVD MAIN Assy** DVD IC (IC201)
		Are the signals output from IC101-pin 1 and pin 2 (CN103-pin 1 and pin 2) on the DVD MAIN Assy ? Pin 2: Approx. 6V during opening tray approx. 0V during closing tray. Pin 1: Approx. 0V during opening tray approx. 6V during closing tray.	**DVD MAIN Assy** FTS Driver IC (IC101)
		Are wires of CN104 and CN103 on the DVD MAIN Assy disconnected or damaged ?	Connector / cable
		Does the voltage of CN102-pin 1 on the DVD MAIN Assy change to 0V by pressing the Inside switch.	Inside switch
5	Playback impossible (no focusing)	Are the signals output from IC101-pin 3 (FOCS_DRV) and pin 4 (FOCS_RTN) on the DVD MAIN Assy ?	**DVD MAIN Assy** FTS Driver IC (IC101)
		Does 650-nm LD emit light ? Does a pickup lens move up / down ? Does an actuator spring bend ?	Pickup
		Are plastic parts damaged ? Or is a shaft detached ? Is the turntable detached or tilted ?	Mechanism section (motor)
		Is flexible cable of CN101 on the DVD MAIN Assy disconnected or damaged ?	Flexible cable / connector
		Is signal output from IC201-pin 42 (FOSO) on the DVD MAIN Assy ? (Device control of about 1.4 V is output usually. It is fluctuated by about 250 mV with focus up / down.)	**DVD MAIN Assy** DVD IC (IC201)
6	Playback impossible (Spindle does not turn)	Are the signals output from IC101-pin 30 (W), pin 33 (V) and pin 35 (U) on the DVD MAIN Assy ? Is pin 26 (STBY) fixed LOW ? (pin 26 is High at playback: 3V)	**DVD MAIN Assy** FTS Driver IC (IC101)
		Is there any part detached from the spindle motor ? Or Is there any foreign object lodged in it ?	Mechanism section (Spindle motor)
		Are wires of CN102 on the DVD MAIN Assy disconnected or damaged ?	Flexible cable / connector
		Is signal output from IC201-pin 37 (DMSO) on the DVD MAIN Assy ?	**DVD MAIN Assy** DVD IC (IC201)
7	Playback impossible (Playback stops)	Does 650-nm LD deteriorate ? If the voltage at each both ends of R322 and R325 on the DVD MAIN Assy is 0.4 V or more, the 650-nm LD is definitely deteriorated.	650-nm LD deteriorated. (When playback of a DVD is impossible)
		Does 780-nm LD deteriorate ? If the voltage at each both ends of R321 and R326 on the DVD MAIN Assy is 0.4 V or more, the 780-nm LD is definitely deteriorated.	780-nm LD deteriorated. (When playback of a CD is impossible)
		Is there abnormality in FG waveform ? (IC201-pin 50)	**DVD MAIN Assy** FG output : FTS Driver IC (IC101)
		Are there scratches or dirt on the disc ?	Disc
8	Picture disturbance during playback (block noise, freeze, other)	Are there scratches or dirt on the disc ? Is there a problem with the format of the disc ?	Disc
		Check the video signals. Composite video signal (IC401-pin 25) S video signal (IC401-pin 21, pin 26) Component video signal (IC401-pin 16, pin 18, pin 20)	**DVD MAIN Assy** DVD IC (IC201) Video IC (IC401, IC451)
9	No sound (Picture is normal)	Check the waveform (ALCK : IC201-pin 212), (ALRCK : IC201-pin 209), (ABCK : IC201-pin 210), (ASDATA0 : IC201-pin 197).	**DVD MAIN Assy** DVD IC (IC201)

● Symptoms that may occur when any of the following ICs is in failure

IC	Symptoms
EEP ROM (DVD MAIN Assy : IC204)	User's data cannot be stored in memory. The ID number is lost.
Flash ROM (DVD MAIN Assy : IC203)	The power cannot be turned on. Downloading of the firmware cannot be performed.
DVD IC (DVD MAIN Assy : IC201)	Any kind of symptoms (no power, a failure in any of the servo, video and audio systems, etc.) may be generated, because the DVD processing is performed by a single chip.
64M SDRAM (DVD MAIN Assy : IC202)	No power. Block noise is generated during playback.

5.3 CIRCUIT DESCRIPTION OF DIGITAL AMP. SECTION



PWM Processor section

The PCM signals output from the DVD decoder or AD converter are input to this section, and their volume and sound quality are digitally adjusted. At the output stage, after conversion from PCM to PWM, the signals are output to the Power stage.

Power Stage section

In this section, timing is controlled so that the MOSFETs on the high and low sides will not be turned on simultaneously. The voltage of the PWM signals are raised to drive the gates of the MOSFET, and the PWM signals to drive the speakers are output from the MOSFET at the output stage. Detection and protection functions against short-circuiting of the output signals and temperature exceeding the standard value are also provided.

If the detection and protection work, the ports of the power stage ICs become the following state.

Power Stage ICs No.	Protection Enable State
IC3201	SD_AB (23pin) => L
IC3301	SD_CD (24pin) => L
IC3401	OTW (25pin) => L

Output LPF section

The carrier elements, high-frequency signals that are unnecessary for these speakers, are eliminated. The signals passed through the LPF will become sine-wave signals, as shown in the figure above.

5.4 SPECIFICATIONS FOR THE PROTECTION CIRCUITS FOR THE DIGITAL AMPLIFIER

The protection circuits for the Digital Amplifier are activated, following the specifications shown below. The error indication on the FL display shows the reason a protection circuit was activated.
Upon diagnosis of the Digital Amplifier, refer to the specifications for the protection circuits here and the overview of the Digital Amplifier circuitry.

1. Overview

The system microcomputer monitors the ports for shutdown requests (Pin 23:SD_AB and Pin 24: SD_CD) and the ports for abnormal-temperature detection (Pin 25: /OTW) of the Power Stage ICs (IC3201, IC3301, and IC3401). As soon as any abnormality is detected, it shuts the unit down.
To notify the user of the possibility of a too high a volume, when the unit is turned on the next time, the volume level will be set to 0, and an error message will be displayed on the FL display.

2. Ports on the system microcomputer to be used for detection

Pin 77: SHUTDOWN
Low voltage at this pin means overcurrent or voltage too low (= V+BSW) at a Power Stage IC.

Pin 79: XOTW
Low voltage at this pin means the temperature at the Power Stage ICs exceeded 125°C.

Note: As one Power Stage IC is provided with two channels, three Power Stage ICs (in total 6 channels) are mounted in this unit. For abnormality detection, the unit implements a logical OR operation regarding these three ICs. Therefore, which IC is abnormal cannot be known directly. To find which IC is abnormal, it is required to check the PWM outputs (35, 38, 47, 50 pin) of the each power stage ICs (IC3201, IC3301, IC3401).

3. Detection timing

Start : Detection starts 500 ms after the PWRCONT port (Pin 84) of the system microcomputer becomes active by your pressing the STANDBY/ON key.

Finish : When the STANDBY/ON key is pressed again (when the power-off process starts).

4. Operation of the protection circuits

The following three protection circuits are activated when the conditions shown below are met:

Overcurrent detection 1: Indication on the FL display: OC ERR 1
Conditions: If the SHUTDOWN ports, which are monitored every 10 ms, become low 7 times in succession

Overcurrent detection 2: Indication on the FL display: OC ERR 2
Conditions: The PCONFIG ports (21-pin), which are monitored every 30 ms, become more than 2Vrms more than 45% in one minute.

Abnormal temperature detection 1: Indication on the FL display: OVERTEMP
Conditions: If the XOTW ports, which are monitored every 10 ms, become low in succession for one minute.

Abnormal temperature detection 2: Indication on the FL display: OVERTEMP
(Prerequisite: The XOTW ports, which are monitored every 10 ms, become low three times in succession.)
Conditions: The above prerequisite is upheld, and the conditions for an overcurrent detection are met.

5. Process when the protection circuits are activated

The unit is shut down within 30 ms after abnormality detection then the volume level is set to 0. The unit can be turned on immediately after the shutdown.

5.5 PASS/FAIL TEST PROCEDURE OF HDMI TRANSMITTER IC

1 In a case where the HDMI video signal is not output

Is the analog video signal output?
- No → Malfunctions are caused around IC201 BE IC.
- Yes ↓

Check if the HOME MENU or VCD playback picture is displayed when this unit is connected to a PC monitor equipped with a DVI input.
Purpose: To check if the HDMI output line, including the terminal, is in failure. (An HDMI <-> DVI conversion cable is required for checking.)
- Yes → Check if the initialization process for HDCP, etc. is OK by connecting this unit with a Pioneer Plasma Display equipped with an HDMI input.
  - NG → The HDMI transmitter IC (HDCP process block) may be in failure. Change IC201 or IC931.
  - OK → The customer's monitor may not be compatible with this unit. Confirm the name of manufacturer and model of the monitor, and get a specific description of the failure. Then look for an identical case in a collection of past cases, or consult the design section. In some cases, upgrading the software or firmware for both the DVD player and the monitor will solve the problem.
- No ↓

Pass/fail test of BE IC (IC201: DVD MAIN Assy)
Conduct proving of R264, R265, R267 and R271 (33 ohms x 44 set), and R266 (27 MHz clock) with an oscilloscope to check whether each signal varies in amplitude between H (3.3 V) and L at reproducing VCD, and whether 27 MHz clock is correctly output.
- OK → Malfunctions are caused in HDMI IC (IC931 : DVD MAIN Assy) or in the output line between IC931 and CN931. In this regard, the frequency is around 1 GHz at the CLK and DATA line between IC931 and CN931, which makes it difficult to observe the waveform by a general oscilloscope. Check the connection with the HDMI connector and the HDMI cable, as well.
- NG ↓

Malfunctions are caused around IC201 BE IC or in IC201.

2 In a case where the HDMI audio signal is not output

The initial setting provides no sound.
Has HDMI sound been changed in STAND-BY MENU?
- No → Change mode.
- Yes ↓

Is a correct signal found by proving the output of 216 pin and 211 pin of IC201, R248 (HSPDIF) and R240 (HCLK : 22/24MHz clock) with an oscilloscope?
- No → Malfunctions in IC201.
- Yes ↓

Is the signal as described above sent to the input of IC931?
- No → Malfunctions around IC931.
- Yes ↓

Is the HDMI image output?
- Yes → Malfunctions in IC931.
- No ↓

Malfunctions are caused in the output line between IC931 and CN931. Check the HDMI connector, as well.

6. SERVICE MODE
6.1 TEST MODE

■ Test Mode Functional Specification

① Test mode entry

In the power ON state, press the [ESC] (A8-5F) key and [TEST] (A8-5E) key in order of the Test mode remote control unit.

• OSD displays test mode.

② LD ON

Enter the test mode.

DVD : Press the [TEST] (A8-5E) and [1] (A8-01) keys in order, and turn on the laser diode (650 nm).

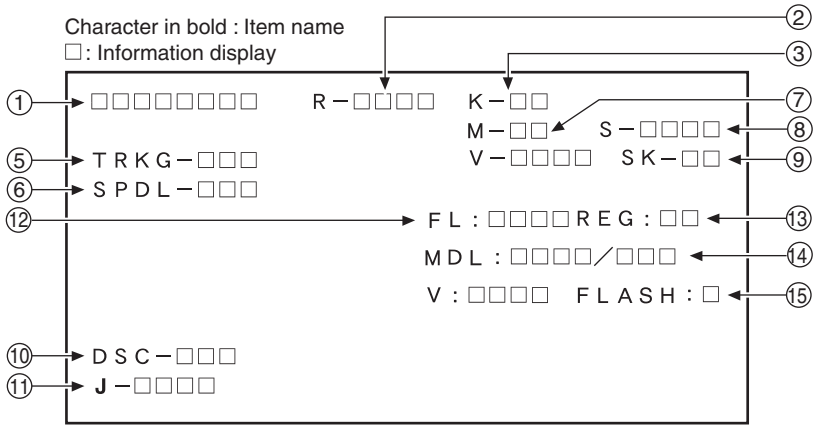
CD : Press the [TEST] (A8-5E) and [4] (A8-04) keys in order, and turn on the laser diode (780 nm).

③ Release the Test mode

• Turn off the power.

• Press the [ESC] (A8-5F) key of the remote control unit and reset it.

6.2 DISPLAY SPECIFICATION OF THE TEST MODE



① Address indication
The address being traced is displayed in number.
(as for the DVD, indication of decimal number is possible.)
DVD : ID indication (hexadecimal number, 8 digits)
[* * * * * * * *]
CD : ID indication [* * * * * * * *]

② Code indication of remote control unit [R – * * * *]
In case of double code, display a 2nd code.

③ Main unit keycode indication [K – * *]

⑤ Tracking status [TRKG – * * *]
Tracking on : [ON]
Tracking off : [OFF]

⑥ Spindle status [SPDL – * * *]
CLV : [CLV]
Off : [OFF]

⑦ Mechanism (loading) position value [M – * *]
Unknown : [01] or [41]
Open state : [04]
Close state : [08]
During opening : [12]
During closing : [22]

⑧ Slider position [S – * * * *]
In Side Switch ON : [01]
In Side Switch OFF : [00]

⑨ Output video system [V – * * * *]
NTSC system : [NTSC]
PAL system : [PAL]
Automatic setting : [AUTO]

Scart terminal output [SK – * *]
(Display only the WY model which can do the output setting of scart terminal.)
VIDEO : [00]
S-VIDEO : [01]
RGB : [02]

⑩ Disc sensing [DSC – * * *]
The type of discs loaded is displayed.
[DVD], [CD]

⑪ Jitter value [J – * * * *]
Note: Don't use it.

⑫ Version of the FL controller [FL: * * * *]
Note: Don't use it.

⑬ Region setting of the player [REG: *]
Setting value : [1] to [6]

⑭ Destination setting of the FL controller [MDL: * * * * / * * *]
Four characters in the front represent code 01.
Three characters in the back represent the destination code.
J: /J, K: /KU, /KC, /KU/KC, R: /RL/RD, RAM : /RAM,
LB: /LB, WY: /WY

⑮ Version of the flash ROM [V: * *. * *]
Flash ROM size [FLASH = * *]

6.3 FUNCTIONAL SPECIFICATION OF THE SHORTCUT KEY

Only during normal playback, the following shortcut keys can be assigned by pressing a required key after pressing the ESC key of the remote control unit. To quit, press the ESC key

Command Contents	Conditions	Remote Control Key Name	Remote Control Code
Memory clear and region / revision indication		CLEAR (*1)	A8-45
Average value measurement of DVD error rate		5 (*1)	A8-05
CD error rate measurement		5 (*1)	A8-05
Scart terminal output : VIDEO	WY, models equipped with Scart terminal	AUDIO	A3-BE
Scart terminal output : S-VIDEO		SUBTITLE	A3-36
Scart terminal output : RGB		ANGLE	A3-B5
Progressive OFF	Only for progressive models	R_SKIP	A3-9D
Progressive ON		F_SKIP	A3-9C
HDMI Resolution : 1920 x 1080i	Only for HDMI models	PROGRAM	A3-EC
FL indication of ID number		STEREO (*1)	A8-4A
ZOOM ON (x4)		ZOOM	A3-37
Service mode indication (error rate indication, etc.)		CHP/TIM (*1)	A8-13
Model information indication		CHAP (*1)	A8-40
Title search Input mode IN Title No. input Search execution		SIDE A (*1) Numbers (*1) PLAY (*1)	A8-4D A8-00 to A8-09 A8-17
Region confimation mode		A.MON (*1) Numbers (*1)	A8-1E A8-01 to A8-08

*1 : Test mode remote control unit

• Service mode indication (ESC + CHP/TIM keys)
ID Address
The error rate is always displayed in exponential notation, e.g., *.* * e - *, for both DVDs and CDs.
EDC/ID/AV 1 error history (ID Address, EDC/ID Error, last eight errors)

• Calculation of the average error rate (ESC + "5" [Test mode remote control unit] keys)
The average of the last eight error rates is calculated and indicated in exponential notation. After the calculation is completed, "OK" or "NG" is displayed. If "NG" is displayed, the disc tray will open (for both DVDs and CDs)
For DVDs: OK with 5.0e-4 or less, for CDs: OK with 7.6e-3 or less

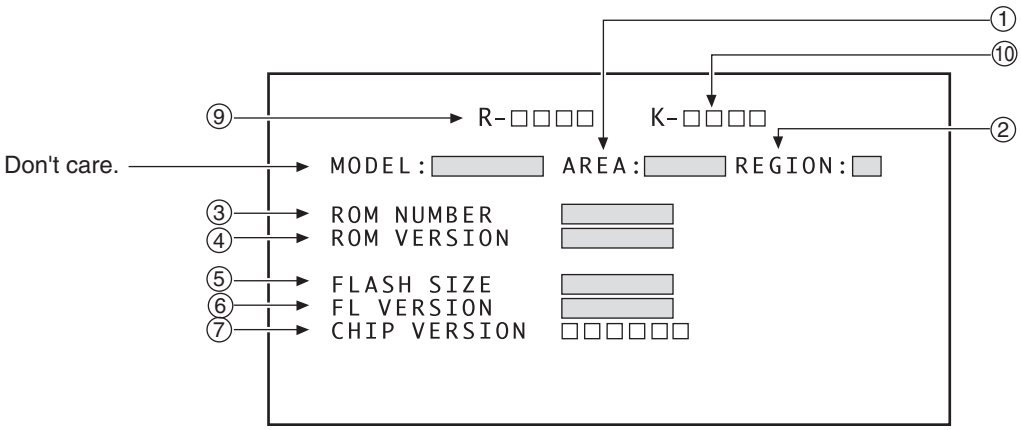
• Indication of model information (ESC + CHAP keys)
The items from 12 to 15 of the TEST MODE Indications are displayed. However, in the indications, S in the standard test mode is changed to CHIP VERSION, and M is changed to RF VERSION. For details, see 6.4.

• Region confirmation mode (ESC + A.MON [Test mode remote control unit] + "1"-"8" [Test mode remote control unit] keys)
After you press the AUDIO key while holding the ESC key pressed and then input the region number, if the number is different from that set in the unit, an error message is displayed, and the tray opens.

6.4 SPECIFICATION OF MODEL INFORMATION DISPLAY

To display model information : Press the ESC key then the CHAP key.
To close the model information display : Press the ESC key.

• Display contents



Character in bold : Item name
□: Information display

① **Destination indication**
Display it according to model information set from the FL controller.
② **Region No.**
③ **Part number**
④ **ROM version**
⑤ **Flash size**

⑥ **FL controller version**
⑦ **CHIP VERSION**

⑨ **Remote control code**
⓪ **Key code of Main unit**

6.5 FUNCTIONAL SPECIFICATION OF THE SERVICE MODE

• Display during Service Mode

To enter Service Mode, press the CHP/TIM key while holding the ESC key pressed.
To quit, press the ESC key.

Service mode display

① ID Address
② Error rate (always displayed), in exponential notation

ERROR RATE : * * * * * * *
(* * * *)
Number of error

• Calculation of the average error rate
For DVDs: OK with 5.0e-4 or less, for CDs: OK with 7.6e-3 or less

ex) For DVDs

• Step 1

△△e - □

△△e -6	: OK
△△e -5	: OK
△△e -4	: Refer to Step 2
△△e -3	: NG
△△e -2	: NG

• Step 2

△△e -4

3.0e -4	: OK
4.0e -4	: OK
5.0e -4	: OK
6.0e -4	: NG
7.0e -4	: NG

③ EDC/ID error history (ID Address, EDC/ID errors, last eight errors)

Note:
* Error of AV1 is not supported in this player.

Indication plan contents

Character in bold : Item name
□: Information display

6.6 SERVICE TEST MODE

1. Conditions During Service Test Mode

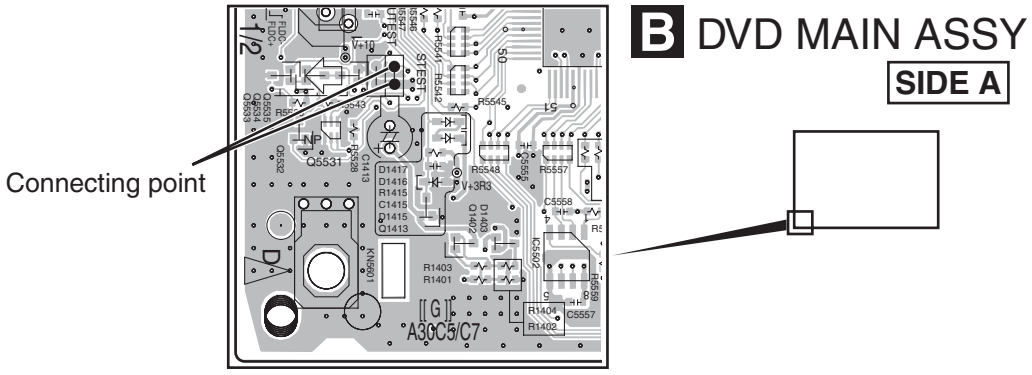
- During Service Test mode, the unit will not be shut down for an emergency even if one of the failures mentioned below occurs.
- After the unit has been shut down in Normal mode for an emergency upon detection of one of the failures mentioned below, you can turn it on immediately, without waiting for one minute, in Service Test mode.
- The accumulated power-on time can be checked during Service Test mode.

2. How to enter Service Test mode

- Connect AC power cord with the STEST port (microcomputer terminal IC5501: 43-pin) at High (5 V). (See "Service Test mode connecting point".)

- Connect AC power cord while holding both the PLAY LIST 3 and POWER keys on the main unit pressed. The unit will be turned on, and the following indication will be displayed: Service Test mode starts, as follows:
  Note: If the power cord was disconnected immediately before, be sure to wait at least one minute before turning on the power in the manner mentioned above. Otherwise, the unit may not operate properly.

■ Service Test Mode connecting point



3. Indications on the FL display when Service Test mode is entered

Note: Initial function setting is DVD/CD.

- Indications on the FL display when Service Test mode is entered differ depending on whether the unit was turned off normally or shut down for emergency protection, immediately before Service Test mode starts, as follows:

[After a normal power-off]

FL display WELCOME
⇩
FL display VOL 0
⇩
FL display DVD SERV

[After a shutdown caused by an AMP-system failure]

FL display PRTCT E
⇩
FL display VOL 0
⇩
FL display DVD SERV

[After a shutdown caused by a DVD-system failure]

FL display DVDPRTCT
⇩
FL display VOL 0
⇩
FL display DVD SERV

[After a shutdown caused by an EEPROM (IC5502) failure]

FL display EEP ERR
⇩
FL display VOL 0
⇩
FL display DVD SERV

[After a shutdown caused by high-temperature detection]

FL display OVERTEMP
⇩
FL display VOL 0
⇩
FL display DVD SERV

[After a shutdown 1 caused by over current detection]

FL display OC ERR 1
⇩
FL display VOL 0
⇩
FL display DVD SERV

[After a shutdown 2 caused by over current detection]

FL display OC ERR 2
⇩
FL display VOL 0
⇩
FL display DVD SERV

4. How to quit Service Test mode, and conditions for quitting

- To quit Service Test mode, turn the power off or disconnect the AC power cord to turn the power off.
- When Service Test mode is quit, only data on protection in RAM will be initialized, and data on user settings in RAM will not be initialized.

5. Operations during Service Test Mode

• Basically, operations in Service Test mode are the same as in Normal mode. However, to indicate that the unit is in Service Test mode, the following are displayed when the functions are changed:

[Functions]	[FL display]
DVD/CD	DVD SERV
USB	USB SERV
TUNER	TX SERV
LINE	LN2 SERV

• When the function is set to LINE, the Surround setting is fixed to X-STEREO (5 CH STEREO), which is only for Service Test mode. (In Normal mode, it is fixed to 2 CH STEREO.) In such a case, do not check the sound through the headphones, because headphone operation with X-STEREO (5 CH STEREO) is not guaranteed. If you wish to check the sound through the headphones, use a function other than LINE.

6. Failures

• Depending on the types of errors, one of the following error messages will be displayed when the unit is turned on:

PRTCT E

A protection circuit was activated:

1. The V+10, V+5 or V+6R8 was short-circuited (See the protection circuit on "10.2 DVD MAIN ASSY (2/5)"), or the value at V+10, V+5, or V+6R8 exceeded the standard value because of an abnormality in its power section.
2. The XPROTECT port (22-pin) line up to the system-control computer (IC5501) was short-circuited by grounding or was broken.

DVDPRTCT

Abnormality in the DVD section

1. The V+5V, or V+3 was short-circuited, or the value at V+5V, or V+3 exceeded the standard value because of an abnormality in its power section.
2. The VDET port (17-pin) line up to the system-control computer (IC5501) was short-circuited by grounding or was broken. (See VDET circuit on "10.2 DVD MAIN ASSY (2/5)")

EEP ERR

1. Breakage or short-circuiting of the communication line between the microcomputer (IC5501) and the EEPROM (IC5502) can be suspected.
2. A failure in the EEPROM (IC5502) can be suspected.

OC ERR 1
OC ERR 2

- If "OC ERR 1, 2" is not displayed when the unit is turned on in Normal mode, short-circuiting of the speaker terminals can be suspected. (It causes speaker cable "+", "-" short.)
- If "OC ERR 1, 2" is displayed again when the unit is turned on in Normal mode, the following causes can be suspected:
  1. One or more of the ICs among the three digital amplifier ICs (IC3201, IC3301, and IC3401: TAS5122DCA) on the DAMP Assy is in failure.
  2. The line between one of the above digital amplifier ICs and the speaker terminals is short-circuited.
  3. The SHUTDOWN port (77-pin) line from one of the above digital amplifier ICs to the system-control computer (IC5501) is short-circuited by grounding or is broken.

  4 V+BSW voltage is too low.

  5 (no reproduce) When both polarities of speaker cable are short , make volume up.

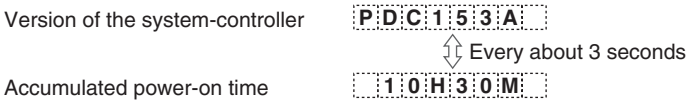
  6 (no reproduce) Speaker cable touch the chassis of set.

OVERTEMP

- If "OVERTEMP" is not displayed when the unit is turned on in Normal mode, the unit is normal. The protection circuit was activated because the temperature at the three digital amplifier ICs (IC3201, IC3301, and IC3401: TAS5122DCA) had become too high. Because it is likely that this was a temporary temperature rise, lower the volume of the speakers.
- If "OVERTEMP" is displayed again when the unit is turned on in Normal mode, the following causes can be suspected:
  1. One or more of the ICs among the three digital amplifier ICs (IC3201, IC3301, and IC3401: TAS5122DCA) on the DAMP Assy is in failure.
  2. The XOTW port (79-pin) line from one of the above digital amplifier ICs to the system-control computer (IC5501) is short-circuited by grounding or is broken.

7. Accumulated power-on time display

- Hold the STOP key on the unit pressed for 8 seconds during Service Test mode. After the version for the system-control computer is displayed, the accumulated power-on time is displayed. The version information and the time information change every 3 seconds during your pushing the key.



- Power-on time is always counted while the power is on, regardless of unit's functions and operations. However, it is not counted during Standby mode.
- The maximum countable power-on time is 255H59M (255 hours 59 minutes.) The indication will not advance beyond that.
- The accumulated power-on time basically cannot be cleared.

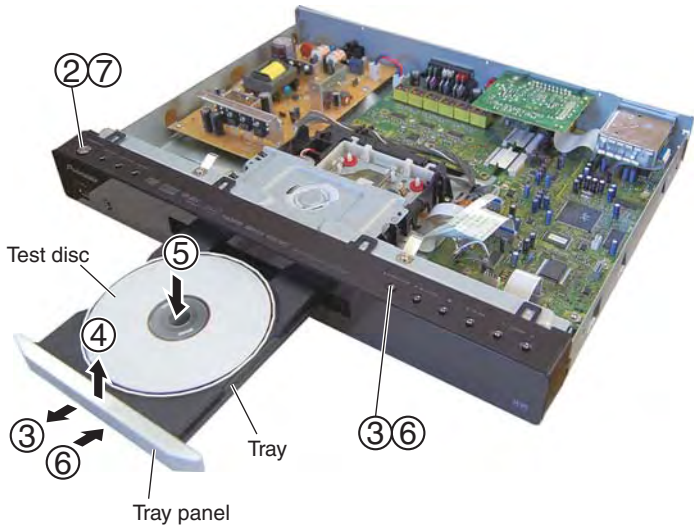
7. DISASSEMBLY

Note 1: Do NOT look directly into the pickup lens. The laser beam may cause eye injury.
Note 2: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Diagnosis of PCB's

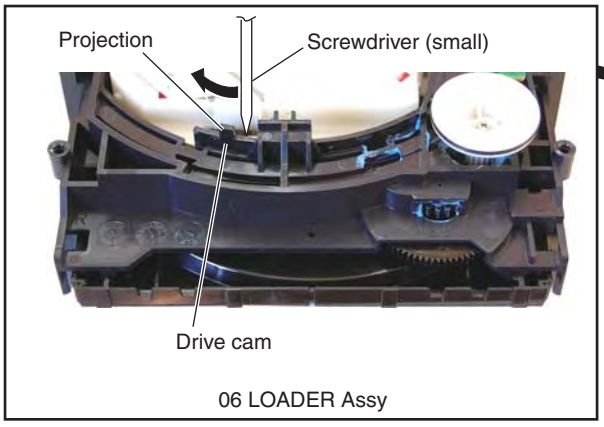
1 Bonnet, Tray Panel

① Remove the bonnet by removing the nine screws.
② Press the ⏻ STANDBY/ON button to turn on the power.
③ Press the ⏏ OPEN/CLOSE button to open the tray.
④ Remove the tray panel.
⑤ Set the test disc.
⑥ Press the ⏏ OPEN/CLOSE button to close the tray. (Test disc is clamped.)
⑦ Press the ⏻ STANDBY/ON button to turn off the power.
⑧ Pull out the Power cord.

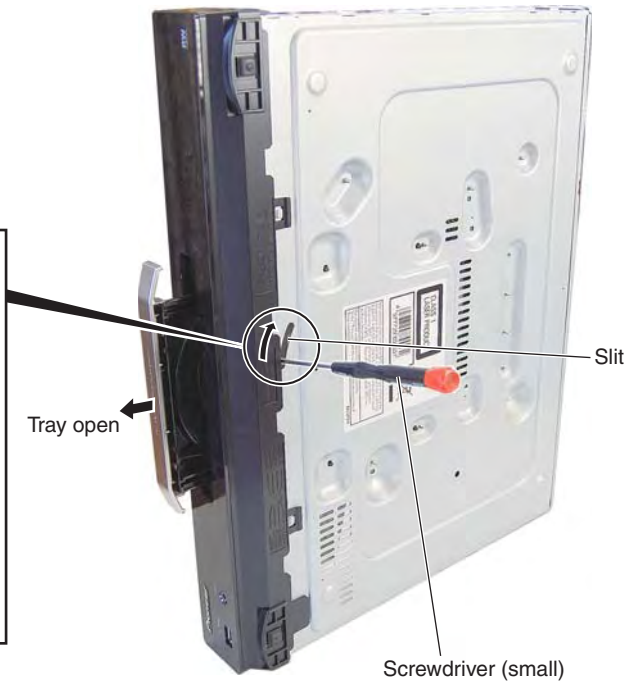


How to open the tray when the power cannot be on

Insert a screwdriver (small) into the slit located at the bottom of the unit, and slide the projection of the drive cam in the 06 LOADER Assy in the direction of the arrow, as indicated in the photo. If the tray pops out a little, fully pull it out by hand.

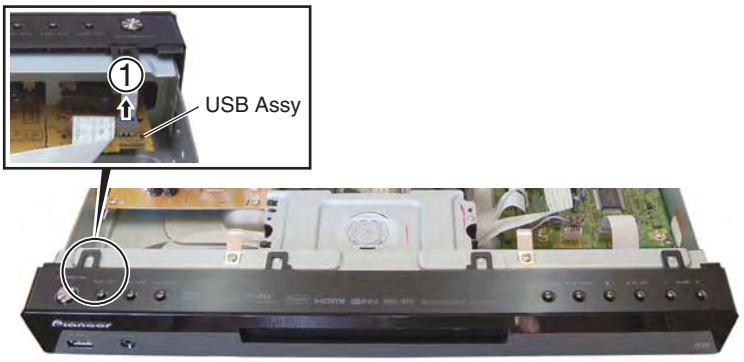


● **Bottom view**

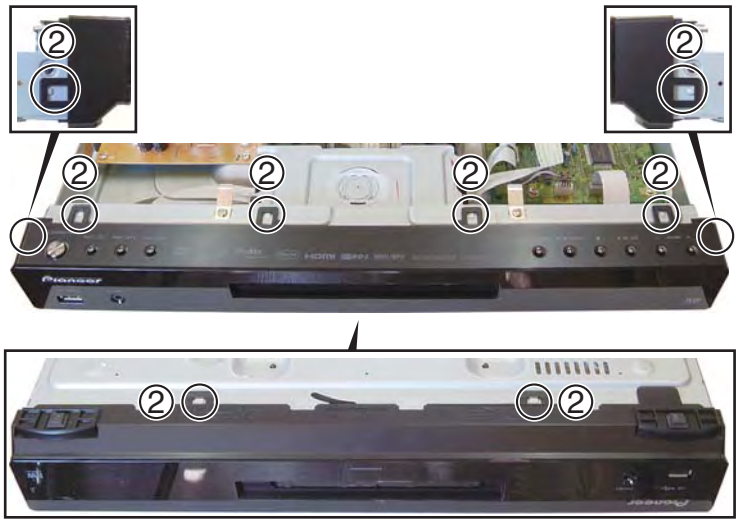


2 Front panel section

① Disconnect the one flexible cable.

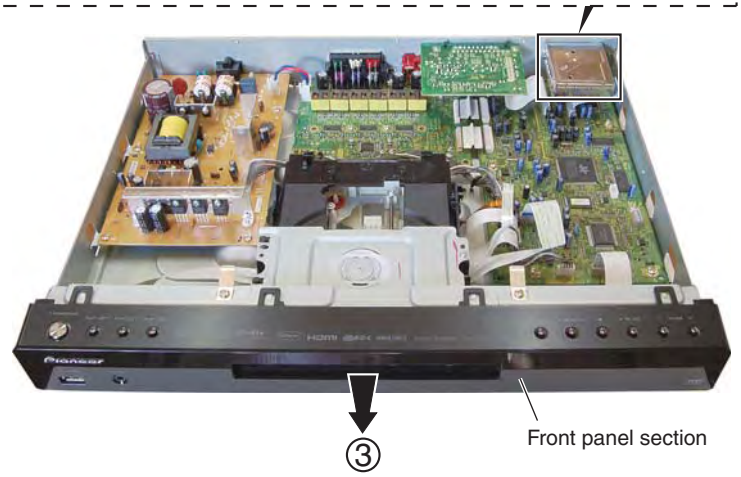


② Unhook the eight hooks.



Note Ⓐ: Do not use an electric screwdriver. If the screws are over-tightened, the screw threads may be damaged.

③ Remove the front panel section.



Removing the Traverse Mechanism Assy-S and 06SD Pickup Assy-S

1 06 LOADER Assy

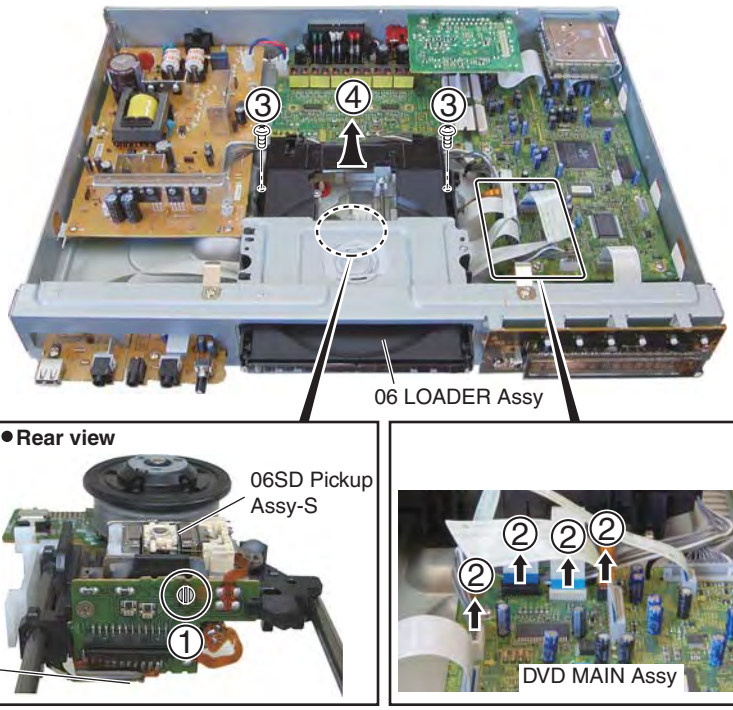
① Short-circuit point by soldering.

Note: After replacement, connect the flexible cable, then remove the soldered joint (open).

② Disconnect the four connectors.

③ Remove the two screws.

④ Remove the 06 LOADER Assy.



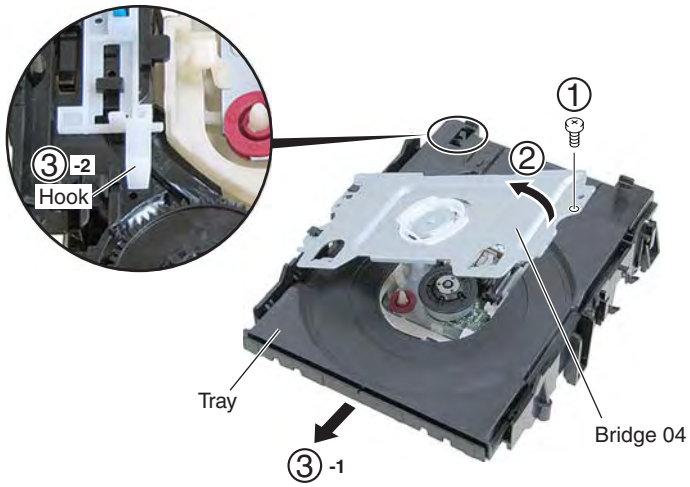
Note: Do not touch the bottom side of the 06SD Pickup Assy-S. If touched, the optical axis may be shifted.

2 Bridge 04, Tray

① Remove the one screw.

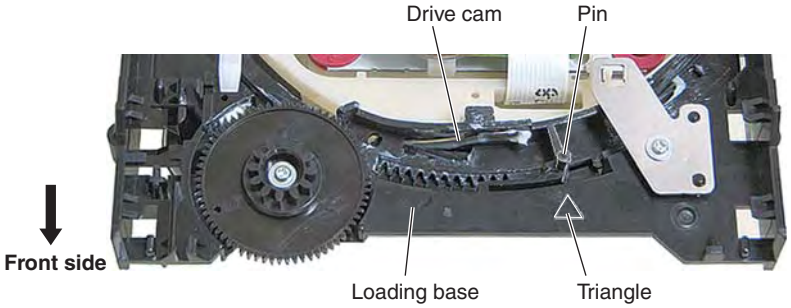
② Remove the bridge 04.

③ Pull out the tray, then remove it by pressing the hook.



Note when reinserting the tray

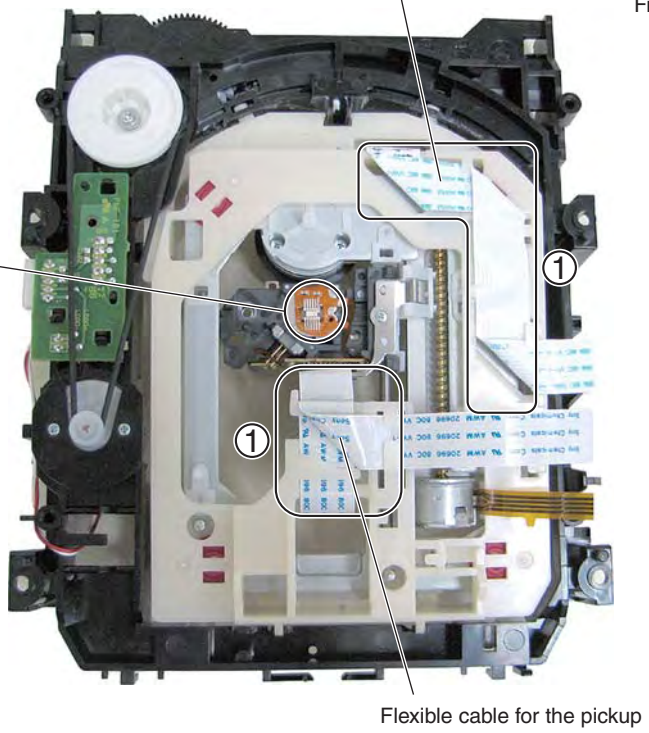
When reinserting the tray, first align the triangle printed on the loading base and the pin of the drive cam, then insert the tray.



3 Traverse Mechanism Assy-S

① Dislodge the two flexible cables from their factory placement.

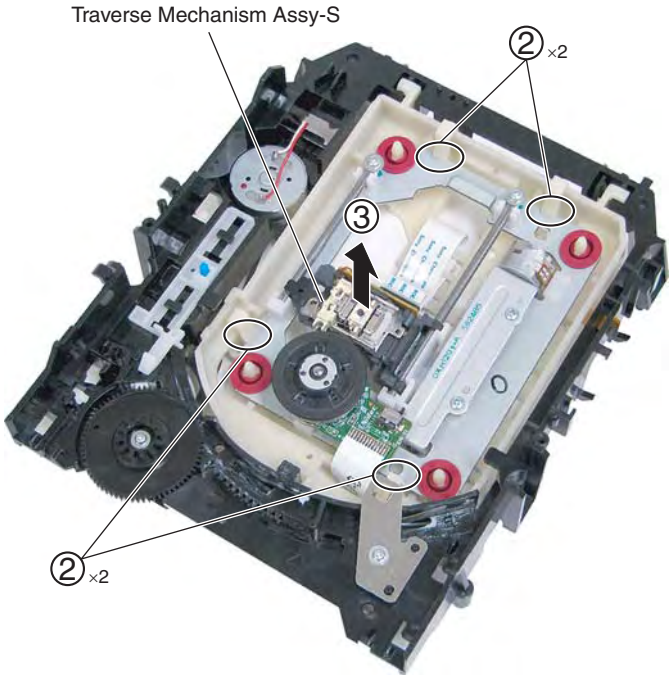
Note: Do not touch the IC for the optical axis. If touched, the optical axis may be shifted.



● **Bottom view**

② Unhook the four hooks.

③ Remove the Traverse Mechanism Assy-S.

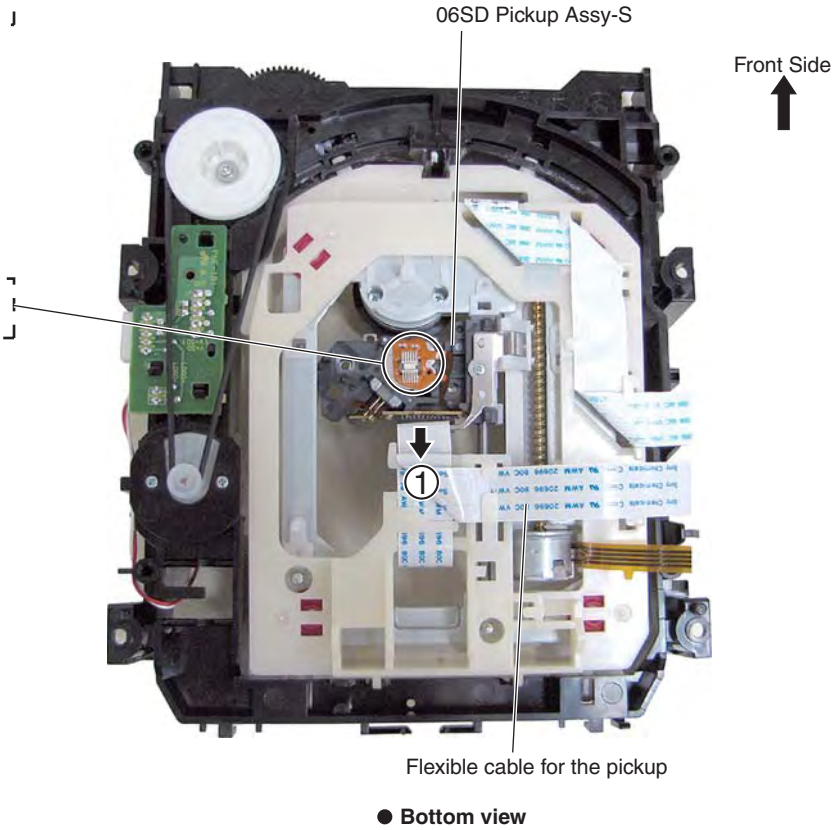


4 06SD Pickup Assy-S

Note: The 06SD Pickup Assy-S can be removed without removing the Traverse Mechanism Assy-S. (shown as Step 3.)

① Disconnect the flexible cable for the pickup.

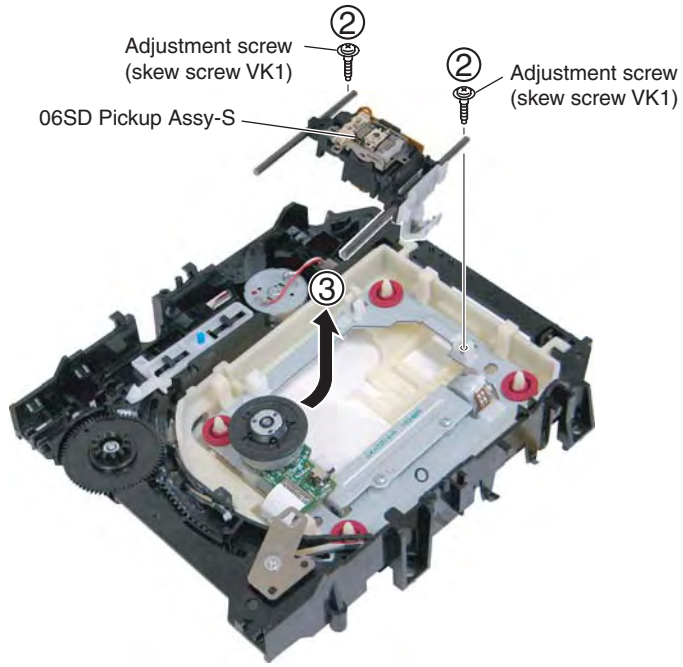
Note: Do not touch the IC for the optical axis. If touched, the optical axis may be shifted.



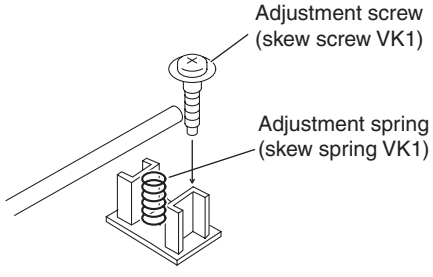
● **Bottom view**

② Remove the two adjustment screws.

③ Remove the 06SD Pickup Assy-S.

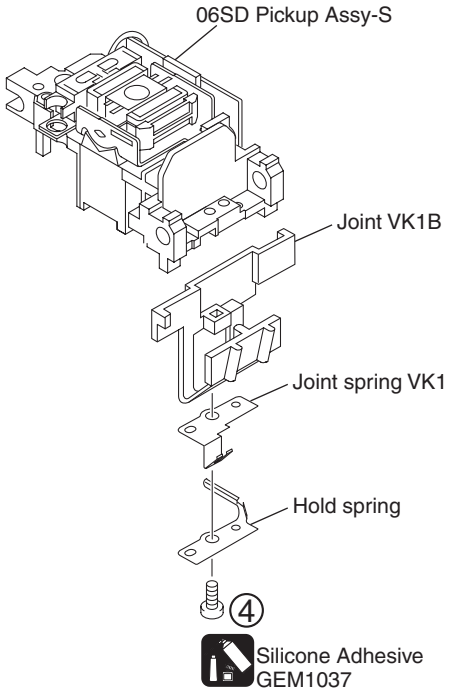


Note: Be careful not to lose the adjustment spring (skew spring VK1).



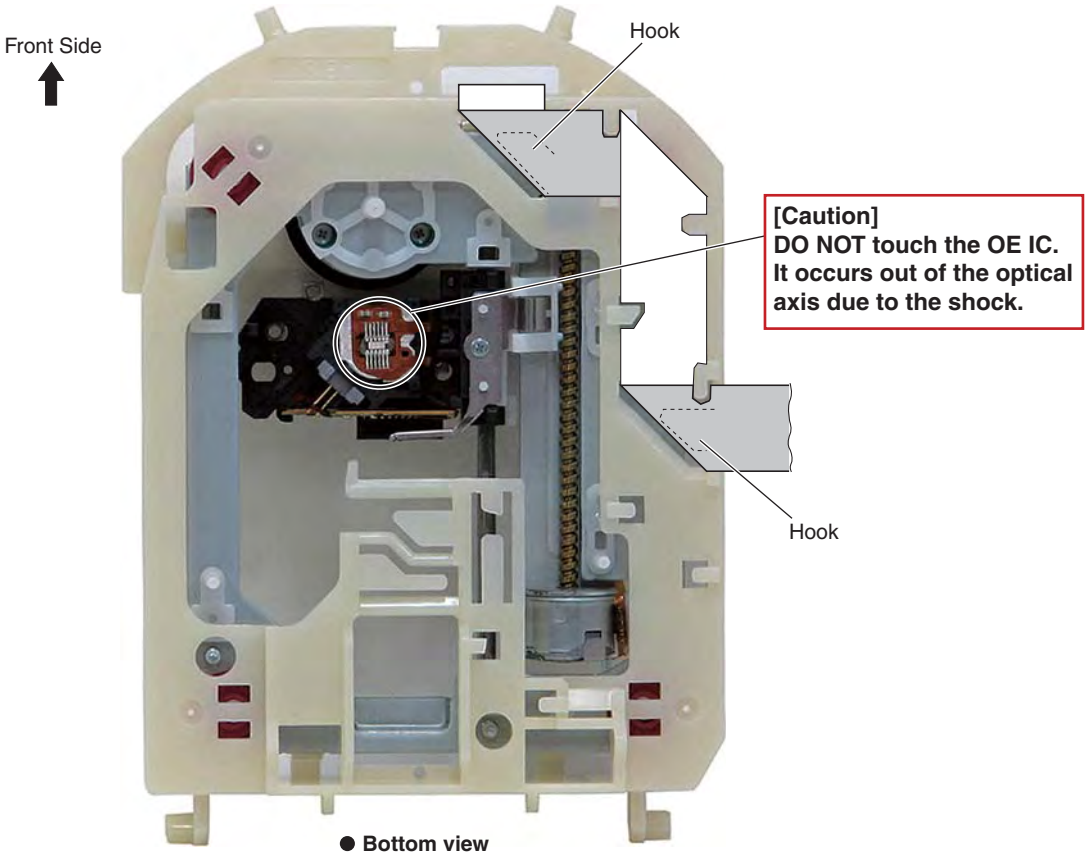
④ Remove the one screw.

Note: The screw is secured with the silicone adhesive.
Make sure to apply the silicone adhesive after reattaching the screw.



Arrangement of the flexible cable for the spindle motor

: Conductive surface

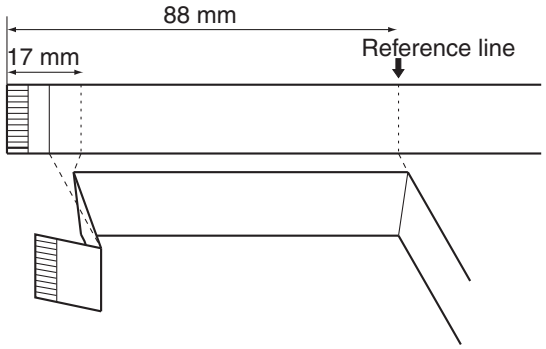


Arrangement of the flexible cable for the pickup

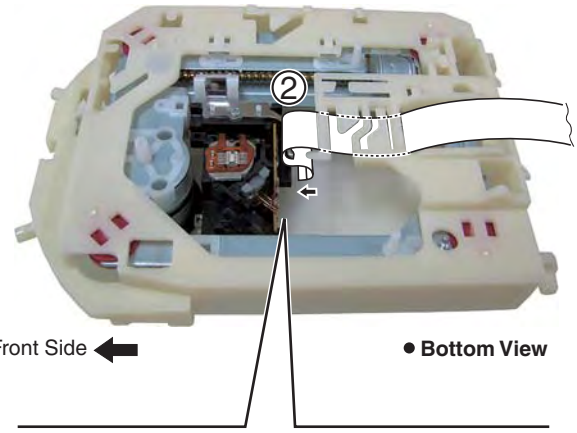
: Conductive surface

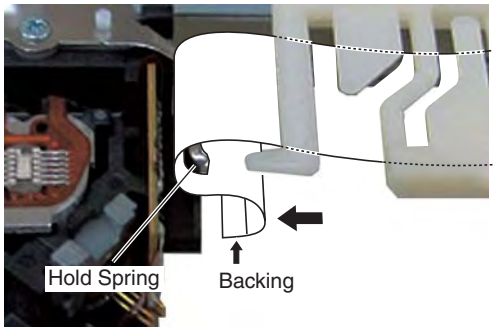
Note:
Be sure to move the 06SD Pickup Assy-S to the innermost perimeter.

① Fold the flexible cable for the pickup with the backing outward in the illustration below.

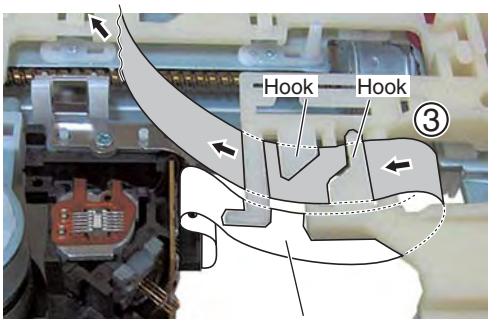


② Attach the flexible cable for the pickup to the connector.



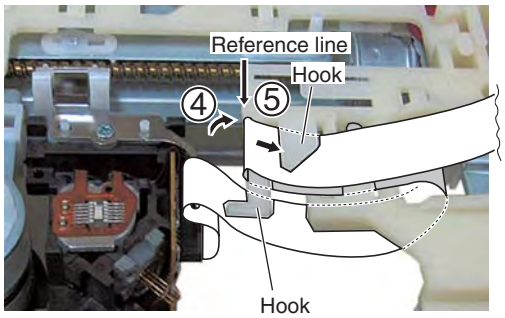


③ Pass the flexible cable through the hook.



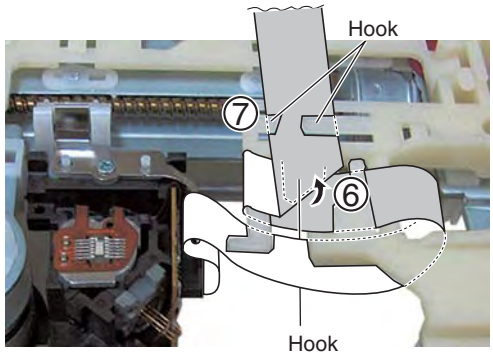
④ Hook the part folded in Step ① to the hook.

⑤ Pass the flexible cable through the hook.



⑥ Fold the flexible cable along the hook.

⑦ Pass the flexible cable through the hook.



8. EACH SETTING AND ADJUSTMENT

8.1 ADJUSTMENT

8.1.1 ADJUSTMENT ITEMS AND LOCATION

■ Adjustment Items

[Mechanism Part]

❶ Tangential and Radial Height Coarse Adjustment

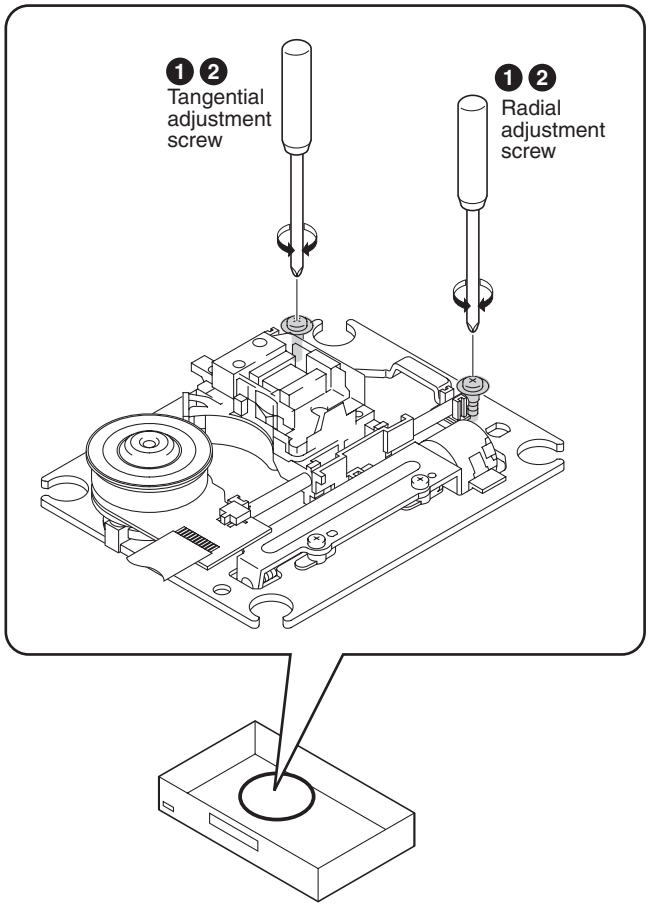
❷ DVD Error Rate Adjustment

[Electrical Part]

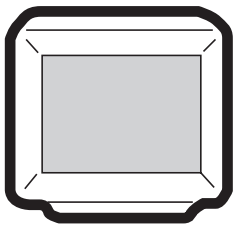
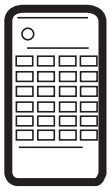
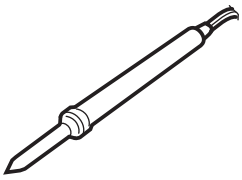
Electrical adjustments are not required.

■ Adjustment Points (Mechanism Part)

Cautions: After adjustment, adjustment screw locks with the Screw tight.



8.1.2 JIGS AND MEASURING INSTRUMENTS

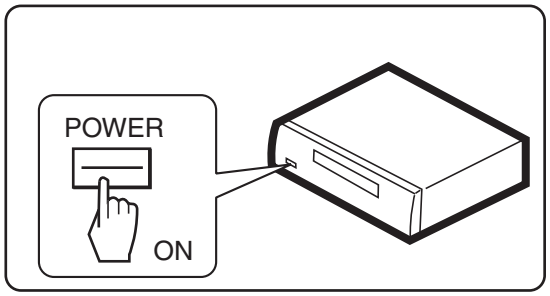
⊕ Screwdriver (large)	⊕ Screwdriver (medium)	 TV monitor	 Test mode remote control unit (GGF1381)
⊕ Precise screwdriver	DVD test disc (GGV1025)	 Soldering iron	Screw tight (GYL1001)

8.1.3 NECESSARY ADJUSTMENT POINTS

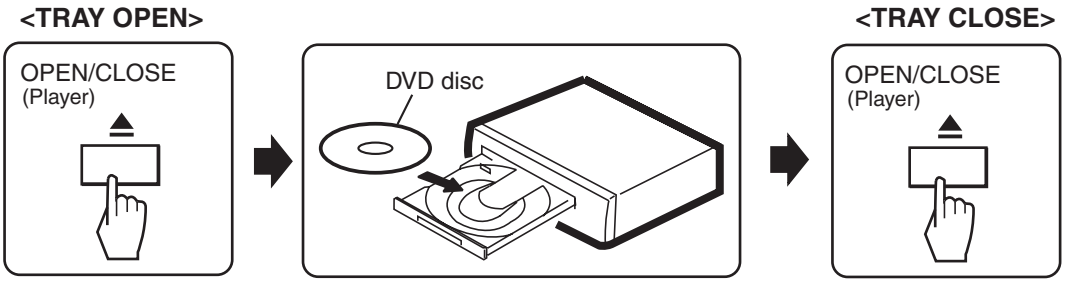
When	Adjustment Points	
■ Exchange Parts of Mechanism		
Exchange the 06SD Pickup Assy-S	Mechanical point	❶,❷ * After adjustment, screw locks with the Screw tight.
	Electric point	———
Exchange the Traverse Mechanism Assy-S	Mechanical point	———
	Electric point	———
Exchange the Spindle Motor	Mechanical point	❷ * After adjustment, screw locks with the Screw tight.
	Electric point	———
■ Exchange PCB Assy		
Exchange PC Board LOAB and DVD MAIN ASSYS	Mechanical point	———
	Electric point	———

8.1.4 TEST MODE

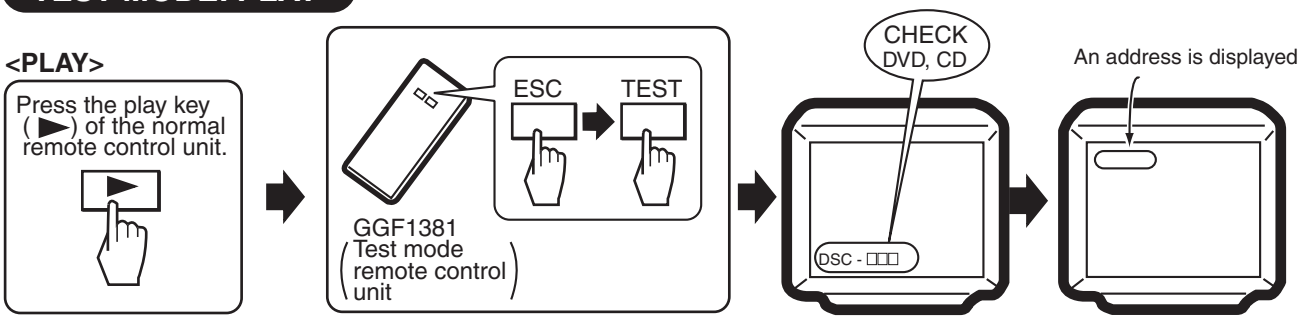
POWER ON



DISC SET

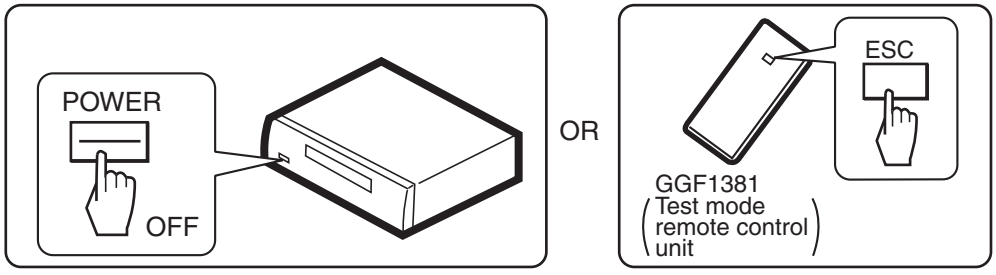


TEST MODE: PLAY



Notes:
- After going into test mode, if you play back the disc, "DISC-NON" is displayed.
- The video signal and the audio signal are outputted duvring the test mode.
- The SKIP key and the SCAN key are effective during the test mode.

TEST MODE: OFF



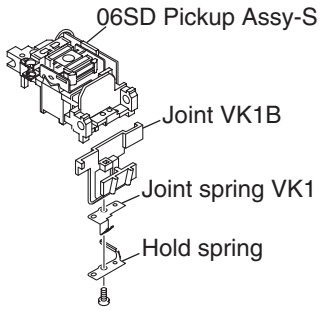
8.1.5 MECHANISM ADJUSTMENT

1 Tangential and Radial Height Coarse Adjustment

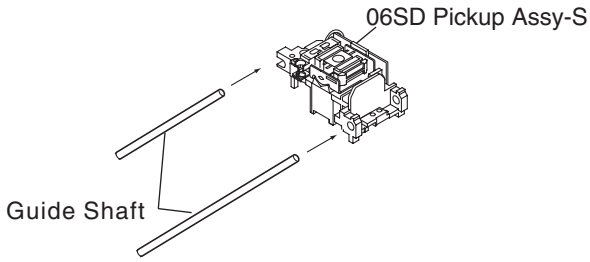
START

- Remove the 06SD Pickup Assy-S from the Traverse Mechanism Assy-S.
- Remove the joint and the joint spring of the 06SD Pickup Assy-S.

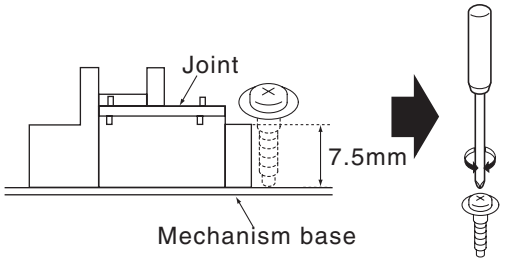
Note:
Before removing the flexible cable for the pickup, soldering of the pickup circuit is necessary.
For details, see “7. DISASSEMBLY”.



- Pass through the guide shaft to a new 06SD Pickup Assy-S.
- Attach it to the Traverse Mechanism Assy-S.



- Put the joint between the Tangential (or Radial) adjustment scrw and the mechanism base and turn each screw to adjust the height.
(Refer to "8.1.1 ADJUSTMENT ITEMS AND LOCATION".)



- Attach the Traverse Mechanism Assy-S to the 06 LOADER Assy.
- Turn it over and attach the joint and the joint spring.
- Arrange the flexible cables.
(Refer to "7. DISASSEMBLY".)

2 DVD Error Rate Adjustment

Notes:
· Use disc: GGV1025

START

· Play the DVD test disc at inner track
· Display ERROR RATE on the monitor

ESC CHP/TIM

Traverse Mechanism Assy-S
Adjust the radial adjustment screw so that ERROR RATE becomes around "5E-4". A

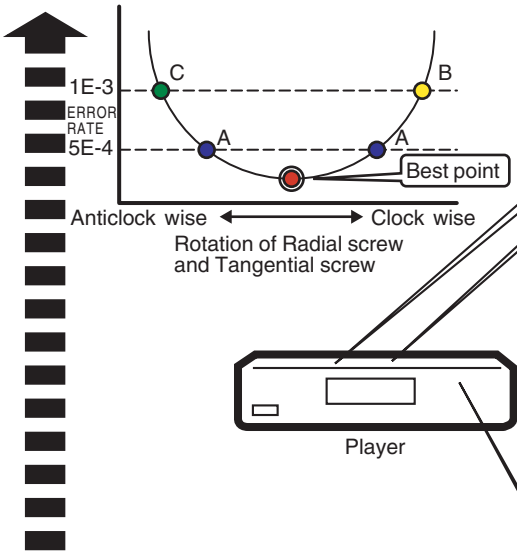
ERROR RATE : "5E-4"

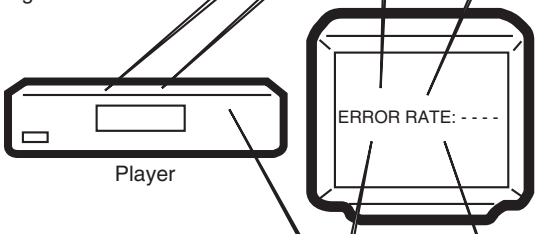
Traverse Mechanism Assy-S
Fasten the radial adjustment screw so that ERROR RATE becomes around "1E-3". B

ERROR RATE : "1E-3"

· Play the DVD test disc at inner track (around #30000)

· Unfasten the radial adjustment screw by 90 degrees step till ERROR RATE becomes around "1E-3" again . C
· Record the number of rotation (N1). (memorizing how much the screw was rotated.)
· Fasten the radial adjustment screw till the number of rotation becomes harf of N1. Best Radial point





ESC
Service mode end

· Play the DVD test disc at outer track (around #200000)

➡ Service mode
ESC CHP/TIM

Traverse Mechanism Assy-S
Fasten the tangential adjustment screw so that ERROR RATE becomes around "1E-3". B

ERROR RATE : "1E-3"

· Unfasten the tangential screw by 90 degrees step till ERROR RATE becomes around "1E-3" again . C
· Record the number of rotation (N1).
· Fasten the tangential adjustment screw till the number of rotation becomes half of N1. Best tangential point

ESC
Service mode end

Disc playback normally.
· The measurement of block error rate

ESC CHP/TIM

CHECK

In this check, the error rate that is less than "5E-5"is better.

NG

OK

If error rate is OK, locks a root of tangential and radial adjustment screws with the Screw tight.
Screw tight: GYL1001

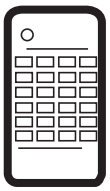
Turn the POWER OFF in case of NG once, and perform the adjustment once again.

8.2 ID NUMBER AND ID DATA SETTING

Caution:
For the DVD players compatible with DVD-RW, for playback of a DVD-RW disc (CPRM) and for the DVD players possessing HDMI output, for HDCP process, it is necessary that an individual ID number and ID data are set for each player. If the ID number and ID data be not properly set in the manner described below, future operations cannot be guaranteed. The ID number is written on the yellow label at the rear panel of the player.
If there is no yellow label, before downloading FLASH ROM, take note of the ID number set following the procedures outlined in "ID Number Confirmation Mode" on the next page.
Note: Enter ID numbers while the unit is in Stop mode so that the values set will be immediately written to the flash ROM.

Setting an ID number or ID data is required in the following case:
If "No NUM" or "NO DATA" is displayed on the FL display for a few seconds immediately after the power to the player is turned on or during Stop mode.

JIGS AND MEASURING INSTRUMENTS

 Service Remote Control Unit [GGF1381]	DVD Data Disc [GGV1269]

■ ID Number Input Mode

① To enter ID Number Input Mode, with no ID number set, such as in a case of immediately after upgrading the firmware, press the ESC key then the STEREO key.

Note: If a previous ID number and ID data, such as a factory-preset ID number and ID data, are maintained, the unit enters ID Number Confirmation Mode when the above keys are pressed. However, if only an ID number is maintained, the unit enters ID Data Input Mode.

② Enter a 9-digit ID number. The ID number is also displayed on the FL display.

③ By pressing the CLEAR key without having input a number, you can exit this mode. Each press of this key after a number has been input deletes one digit.

```
[Player's ID Number Setting]
 ID Number ?
 - - - - - - - - -
②
③ <CLEAR>  Exit


 Input ID Number !
```

④ After entering all 9 digits, if you press the PLAY key, the unit enters Compare mode. Enter the same ID number again. Only if your two input numbers match, the ID number is set. Compare mode helps eliminate mistyping of the ID number.

Note: If you press the PLAY button before inputting a 9-digit ID number, the unit returns to Step ② without doing anything else.

⑤ After entering all 9 digits, if you press the SEARCH key, the unit unconditionally sets the input number as the ID number. Then the unit automatically enters Player's Data Input Mode. (The SEARCH key is not accepted after all 9 digits have been entered.)

```
[Player's ID Number Setting]
 ID Number ?
  0 0 0 0 0 0 0 0 1
④ <PLAY>      Compare Mode
⑤ <SEARCH>  Enter

 Input ID Number !
```

⑥ This display appears when the PLAY key is pressed in Step 4. Enter a 9-digit number to compare. The number is also displayed on the FL display.

⑦ By pressing the CLEAR key without having input a number, the unit returns to Step ② without doing anything else. Each press of this key after a number has been input deletes one digit.

```
[Player's ID Number Setting]
 ID Number ?
    0 0 0 0 0 0 0 0 1
 Compare
⑥   * * * * * * * * *


 Input ID Number !
```

⑧ After entering all 9 digits, if you press the PLAY key, the unit compares the numbers input in Steps ② and ⑥, and only if the numbers match, that number is set as the ID. Then the unit automatically enters ID DATA Input Mode. If the numbers do not match, the disc tray is opened, and the unit exits ID Number Input Mode.

Note: If you press the PLAY button before inputting a 9-digit ID number, the unit returns to Step ⑥ without doing anything else.

```
[Player's ID Number Setting]
 ID Number ?
    0 0 0 0 0 0 0 0 1
 Compare
    0 0 0 0 0 0 0 0 1
⑧ <PLAY>  Enter

 Input ID Number !
```

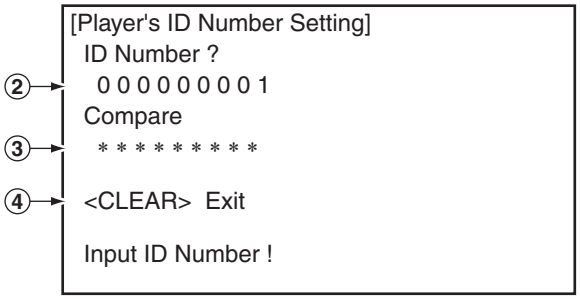
ID Number Confirmation Mode

① To enter ID Number Confirmation Mode after the ID number and the ID data are set, press the ESC key then the STEREO key.

② The ID number already set is displayed.
(It is also displayed on the FL display.)

③ Enter a 9-digit number for comparison. This is not required when you only wish to check the ID number visually.
(The number is also displayed on the FL display.)

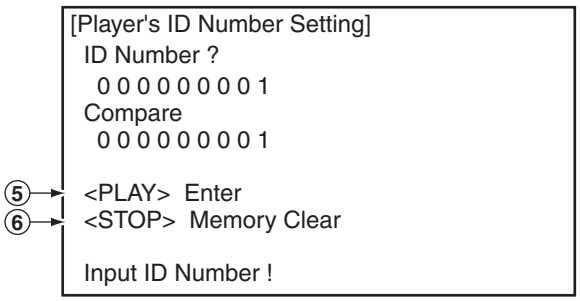
④ By pressing the CLEAR key without having input a number, you can exit this mode. Each press of this key after a number has been input deletes one digit.



⑤ After entering all 9 digits, if you press the PLAY key, the unit compares the number entered in Step ② with the ID number set, and only if the numbers match, the unit automatically exits ID Number Confirmation Mode. If an ID data has not been entered, the unit enters ID DATA Input Mode. If the numbers do not match, the disc tray is opened, and the unit exits ID Number Confirmation Mode.

Note: If you press the PLAY button before inputting a 9-digit ID number, the unit returns to Step ④ without doing anything else.

⑥ After entering all 9 digits, if you press the STOP key, the unit compares the number entered in Step ③ with the ID number set, and only if the numbers match, the unit automatically deletes the ID number and exits this mode. If the numbers do not match, the disc tray is opened, and the unit exits this mode. (The STOP key is not accepted after all 9 digits have been entered.)



• Indication of an ID number already set

An ID number already set is displayed in the following cases:

1) When the ESC key then the CLEAR key are pressed, user settings are cleared, then the ID number set is displayed on the screen. In this case, the ID number is not displayed on the FL display.
2) When the unit enters ID Number Confirmation Mode by your pressing the ESC key then the CLEAR key, the ID number set is displayed. In this case, the ID number is also displayed on the FL display.
If you only need to confirm the ID number, you can exit this mode by pressing the CLEAR key or turning off the power.

• Indication when no ID number is set

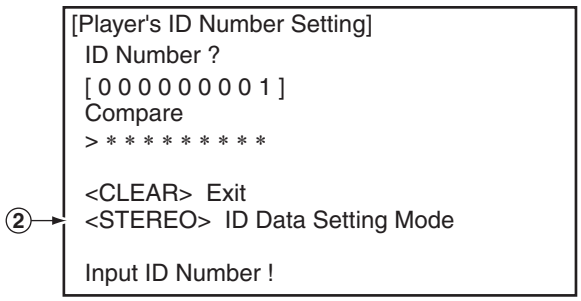
If no ID number is set, the message "No NUM" flashes on the screen and FL display for a few seconds after the power is turned on or during Stop mode.

■ ID DATA Input Mode

NOTE: Be sure to use a specified DVD (ID) DATA DISC.

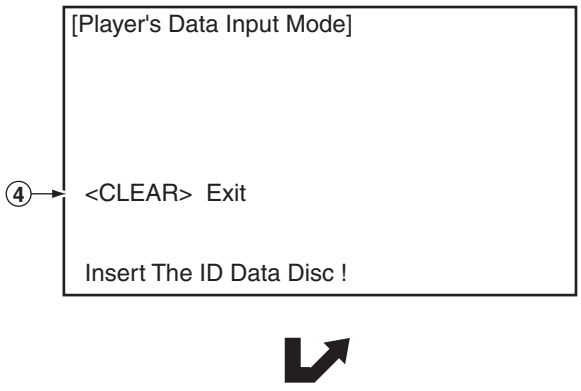
① To enter ID DATA Input Mode, with the ID number set, press the ESC key then the STEREO key.

② When the STEREO key is pressed, the unit enters ID DATA Input Mode.



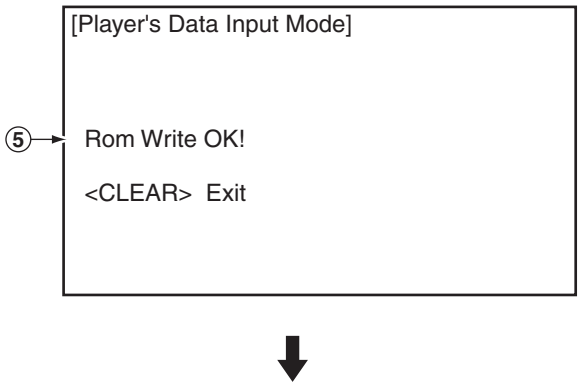
③ If the DVD DATA DISC is loaded in this mode, the unit automatically starts reading the data.
(If the DVD DATA DISC has already been loaded, the unit does not start reading the data. In this case, open then close the tray.)

④ To exit this mode, press the CLEAR key. While data are being read from the DVD DATA DISC, you cannot exit this mode.



⑤ When writing of the data read from the disc to flash ROM is completed, "Rom Write OK!" is displayed. After seeing this message, you can exit this mode by pressing the CLEAR key.

Note: Whether or not the data have been written to flash ROM can be confirmed by watching for the message "Rom Write OK!" being displayed after the disc is read.



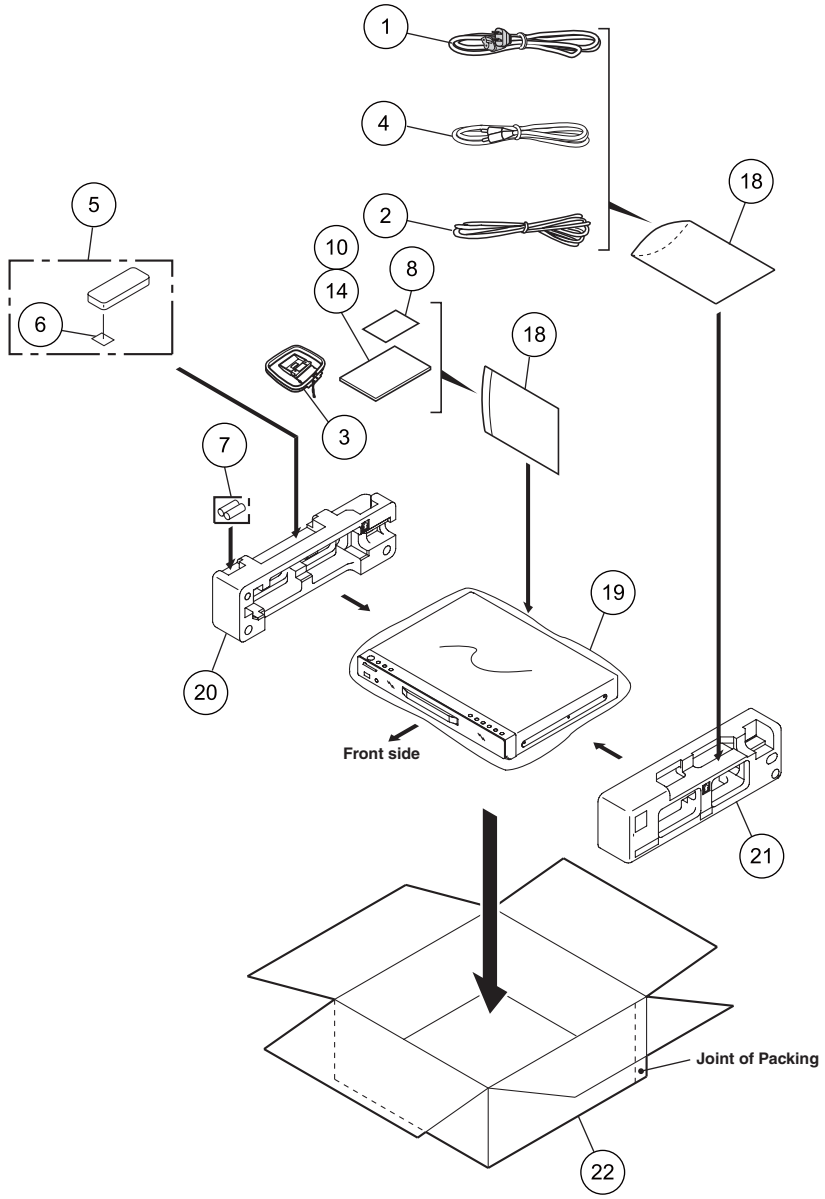
⑥ If the data cannot be read from the disc, the unit will be exited ID Data Input Mode and proceed to the display of "**Pioneer**" logo.

• Indication when the data have not been set
If no ID data are set after the ID number is changed, the message "NO DATA" flashes on the screen and FL display for a few seconds after the power is turned on or during Stop mode.

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

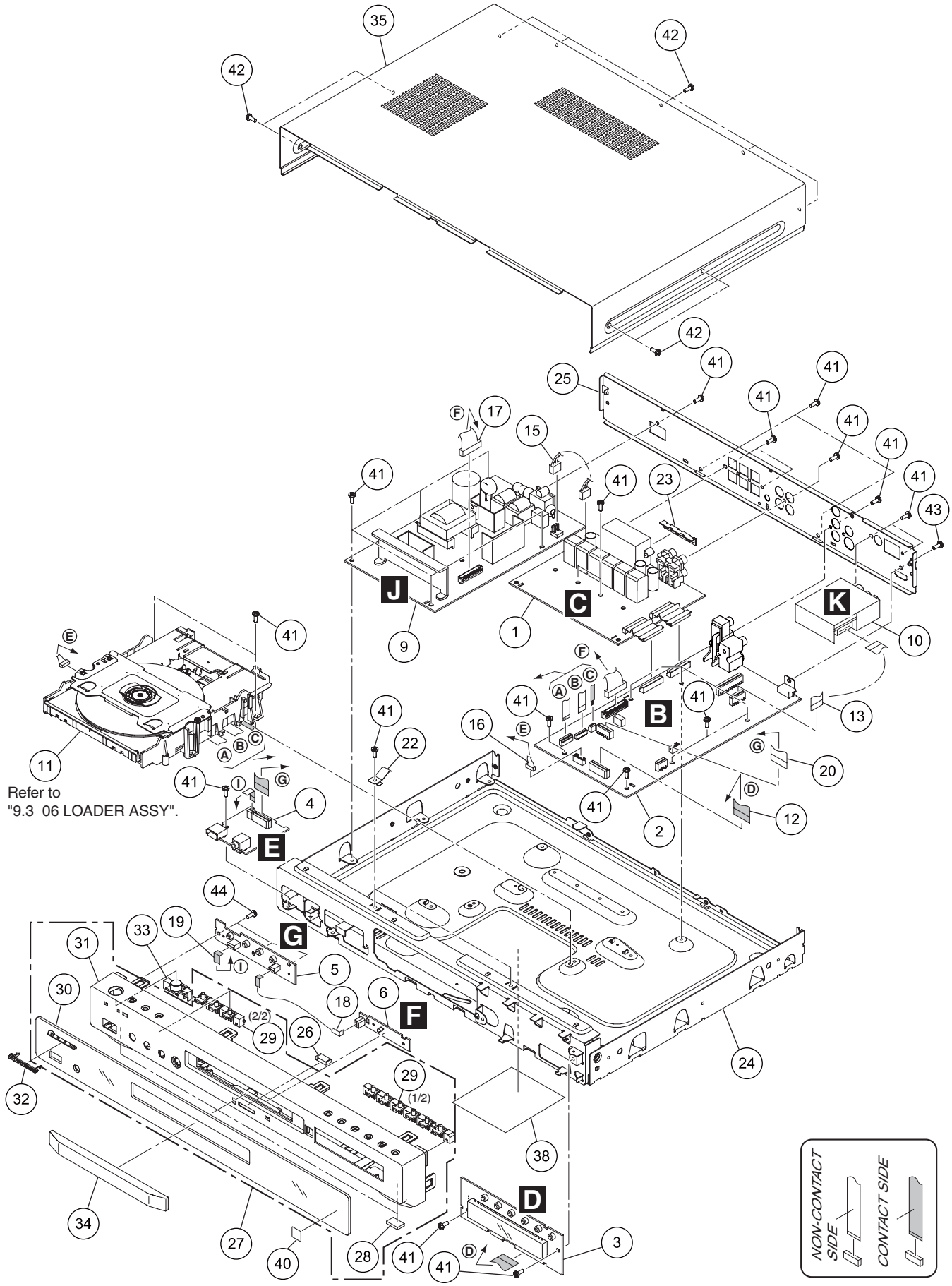
9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
⚠	1	Power Cord	ADG7021
	2	FM Antenna	ADH7030
	3	AM Loop Antenna	ATB7013
	4	Video Cable	XDE3046
	5	Remote Control	XXD3121
	6	Battery Cover	AZN8018
NSP	7	Dry Cell Battery (AA/R6)	XEX3002
NSP	8	Warranty Card	ARY7045
	9	• • • • •	
	10	Operating Instructions (English / French)	XRE3158
	11	• • • • •	
	12	• • • • •	
	13	• • • • •	
	14	Setup Guide	XRE3146
	15	• • • • •	
	16	• • • • •	
	17	• • • • •	
NSP	18	Polyethylene Bag	AHG7117
	19	Packing Sheet	AHG7053
	20	Pad L	AHA7454
	21	Pad R	AHA7455
	22	Packing Case	XHD3706

9.2 EXTERIOR SECTION



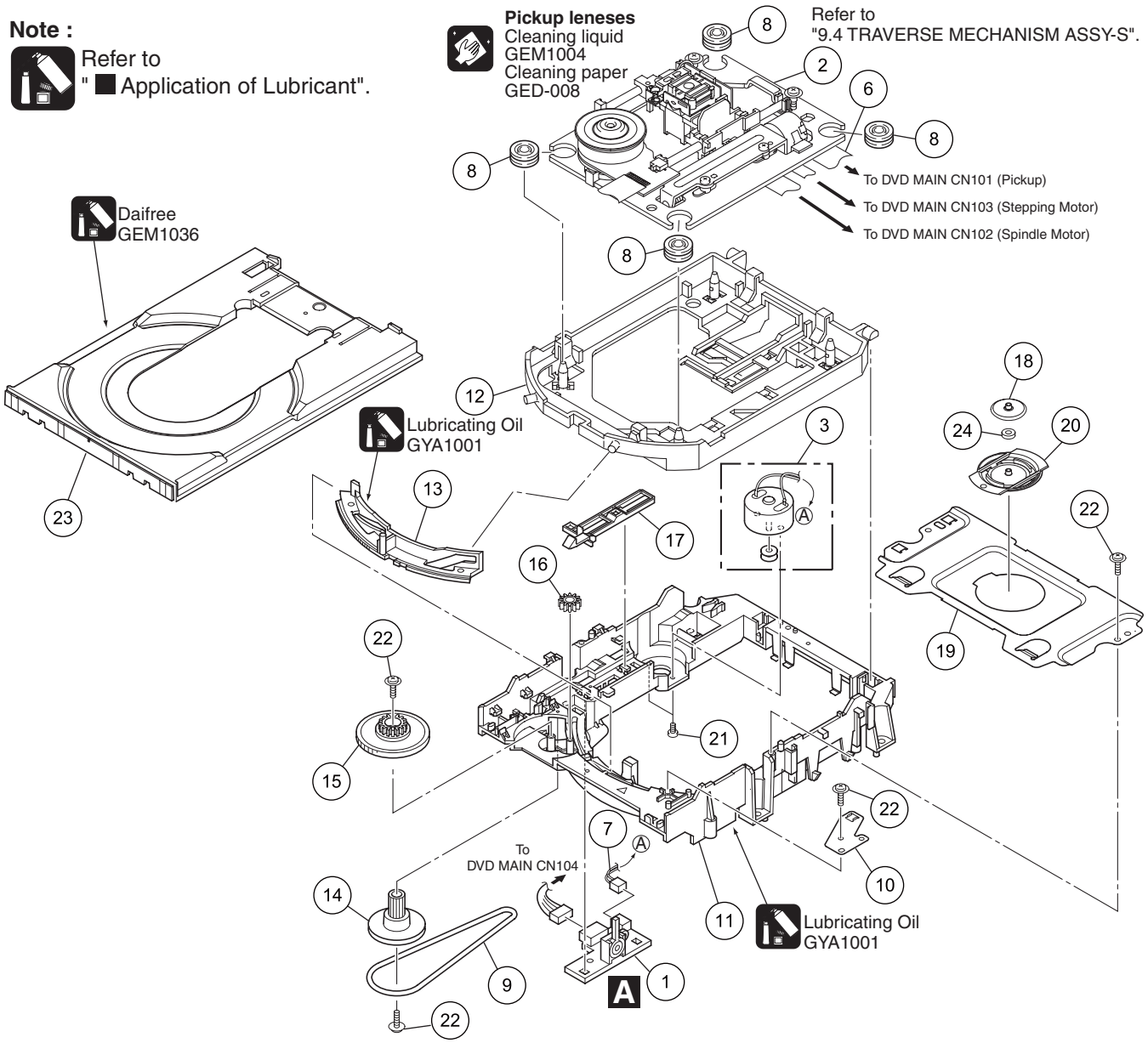
(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DAMP Assy	XWK3318
	2	DVD MAIN Assy	XWM3343
	3	DISPLAY Assy	XWZ4256
	4	USB Assy	XWZ4259
	5	KEY Assy	XWZ4261
	6	LED Assy	XWZ4263
	7	• • • • •	
	8	• • • • •	
⚠	9	POWER SUPPLY Unit	XWR3014
	10	FM/AM TUNER Unit	AXX7250
NSP	11	06 LOADER Assy	VWT1226
	12	13P Flexible Cable/60V (J1903)	ADD7541
	13	11P Flexible Cable/60V (J1908)	ADD7543
	14	• • • • •	
	15	2P Housing Wire Assy (J1911)	ADX7480
	16	Connector Assy (J1901)	PF05PP-B40
	17	Connector Assy (J1902)	PG13KK-F22
	18	3P Flexible Cable/60V (J1906)	XDD3229
	19	5P Flexible Cable/60V (J1905)	XDD3231
	20	15P Flexible Cable/60V (J1904)	XDD3234
	21	• • • • •	
	22	Earth Spring W5.1	ABH7240
	23	GND Plate W5.1	ABH7241
NSP	24	Chassis	ANA7187
	25	Rear Panel	XNC3499
	26	Diffusion Sheet	XAK3577
	27	Front Panel Assy	XXG3333
	28	Rubber Foot	VEB1325
NSP	29	Button	XAD3254
NSP	30	Display Window	XAK3590
NSP	31	Front Panel	XMB3273
	32	Pioneer Name Plate	AAM1107
	33	Standby Button	XAD3253
	34	Tray Panel	XAK3573
	35	Bonnet (for service)	XZN3192
	36	• • • • •	
	37	• • • • •	
NSP	38	Name Label	XAL3261
	39	• • • • •	
NSP	40	Energy Star Label	AAX8022
	41	Screw	BBZ30P080FNI
	42	Screw	BBZ30P080FTB
	43	Screw	BSZ30P060FTC
	44	Screw	VPZ30P080FNI

9.3 06 LOADER ASSY

Note :

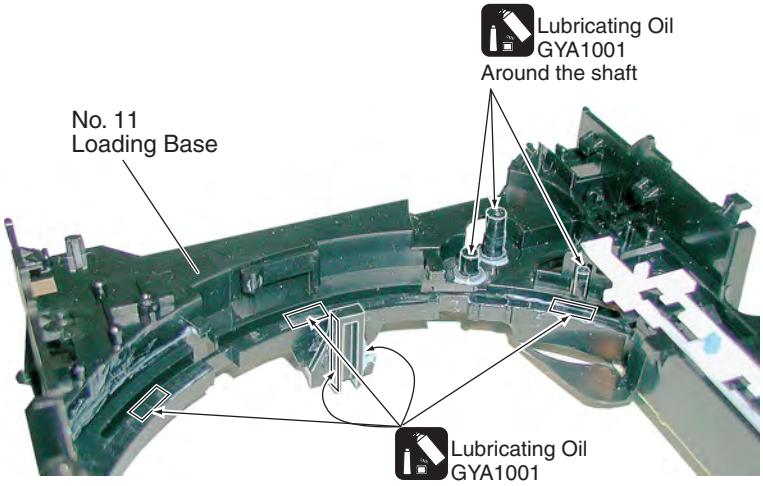
Refer to
" ■ Application of Lubricant".

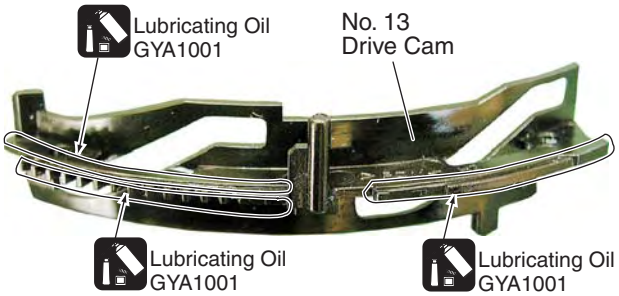


06 LOADER ASSY PARTS LIST

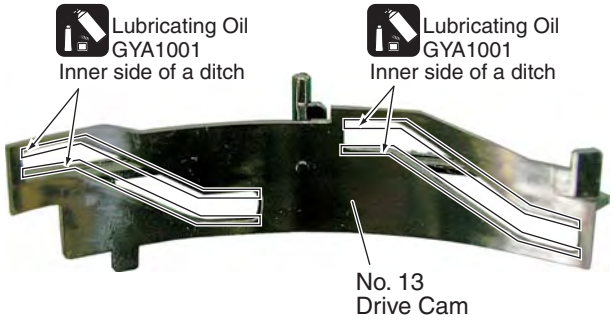
Mark	No.	Description	Part No.
NSP	1	LOAB Assy	VWG2346
	2	Traverse Mechanism Assy-S	DXX2575
	3	Loading Motor Assy	VXX2912
	4	• • • • •	
	5	• • • • •	
	6	Flexible Cable (24P)	ADD7545
	7	Connector Assy 2P	VKP2253
	8	Floating Rubber	VEB1351
	9	Belt	VEB1358
	10	Stabilizer	VNE2253
	11	Loading Base	VNL1917
	12	Float Base 04	VNL1968
	13	Drive Cam	VNL1919
	14	Gear Pulley	VNL1921
	15	Loading Gear	VNL1922
	16	Drive Gear	VNL1923
	17	SW Lever	VNL1925
	18	Clamper Plate 04	VNE2342
	19	Bridge 04	VNE2343
	20	Clamper 04	VNL1969
	21	Screw	JGZ17P028FTC
	22	Screw	VBA1094
	23	Tray	VNL1920
	24	Clamp Magnet	VMG1029

Application of Lubricant

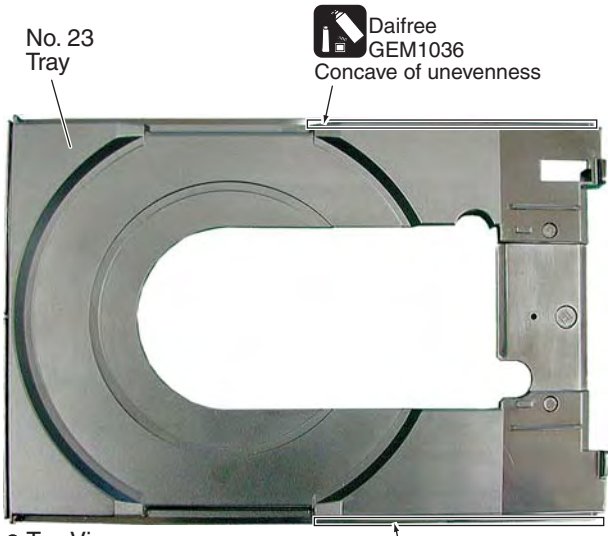




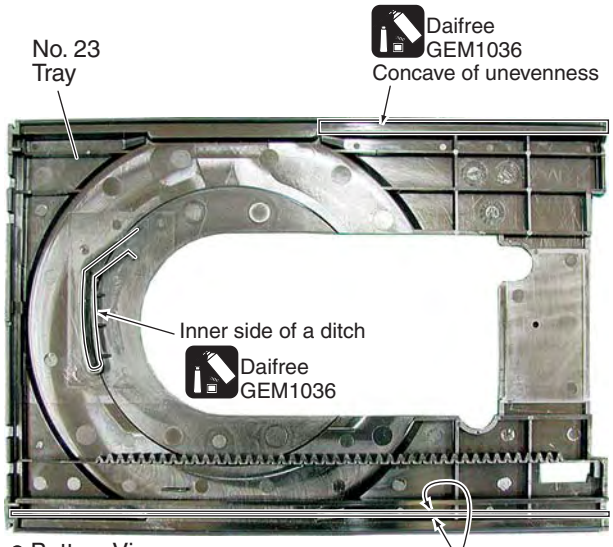
● Front View



● Rear View



● Top View

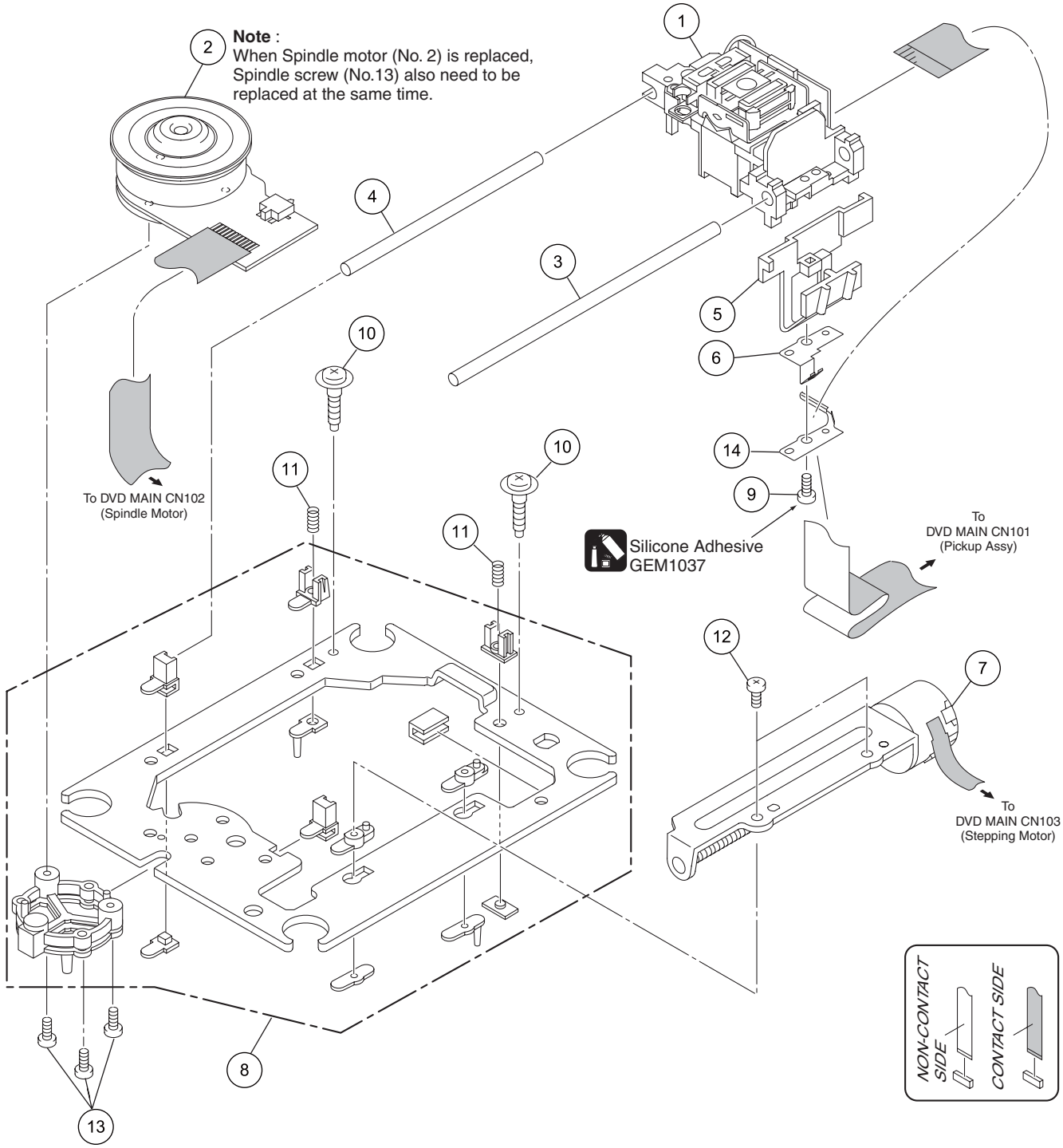


● Bottom View

9.4 TRAVERSE MECHANISM ASSY-S

Note :

Refer to
" ■ Application of Lubricant".



Note : Spindle screw (DBA1252)(No.13) is the screw which applied special bond.
Therefore the adhesion becomes inteffective when takes it off once. Spindle screw is the part which cannot recycle.
When Spindle motor (No. 2) is replaced, Spindle screw (No.13) also need to be replaced at the same time.

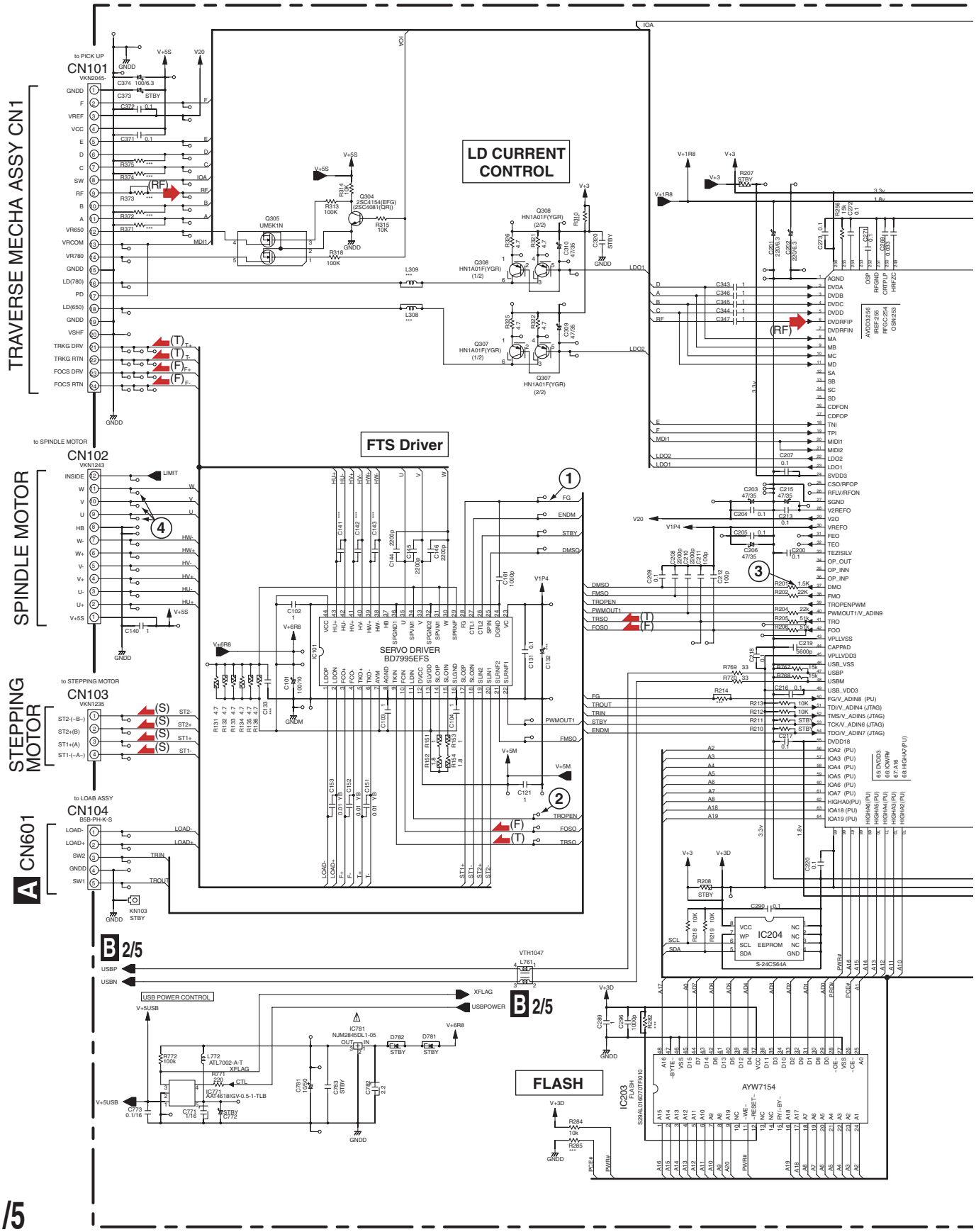
TRAVERSE MECHANISM ASSY-S PARTS LIST

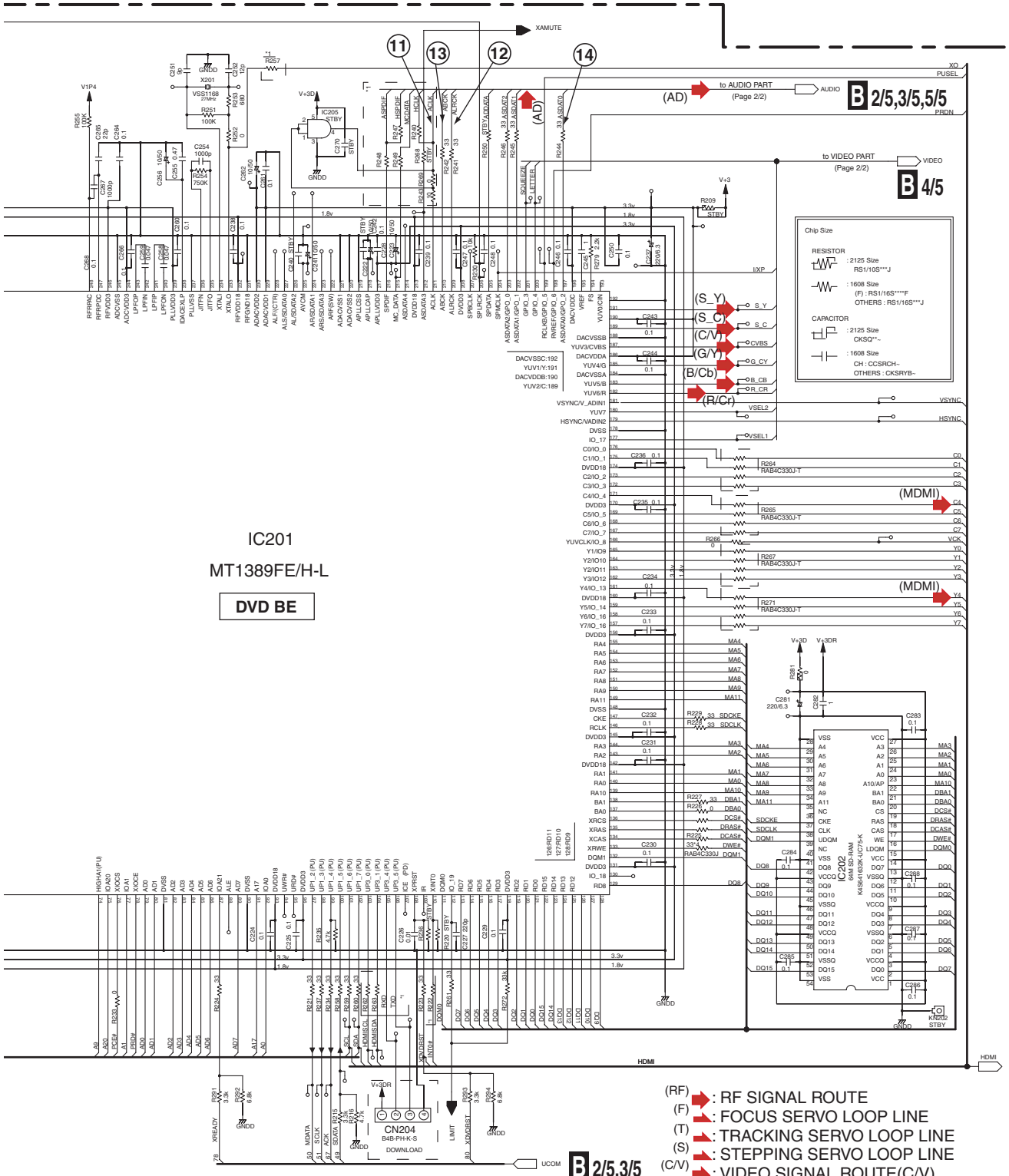
Mark	No.	Description	Part No.
⚠	1	06SD Pickup Assy-S	OXX8020
	2	Spindle Motor N200	DXM1197
NSP	3	Guide Shaft VK1	DLA1940
NSP	4	Sub Guide Shaft VK1	DLA1941
NSP	5	Joint VK1B	DNK4272
NSP	6	Joint Spring VK1	DBK1235
	7	Stepping Motor VK1	DXM1201
NSP	8	Mechanism Frame VK1	DNK4160
	9	Precision Screw VK1	DBA1209
	10	Skew Screw VK1	DBA1211
	11	Skew Spring VK1	DBH1516
NSP	12	Stepping Screw	DBA1205
	13	Spindle Screw VK1(for Service)	DBA1252
NSP	14	Hold Spring	DBK1297

10. SCHEMATIC DIAGRAM

10.1 DVD MAIN ASSY (1/5)

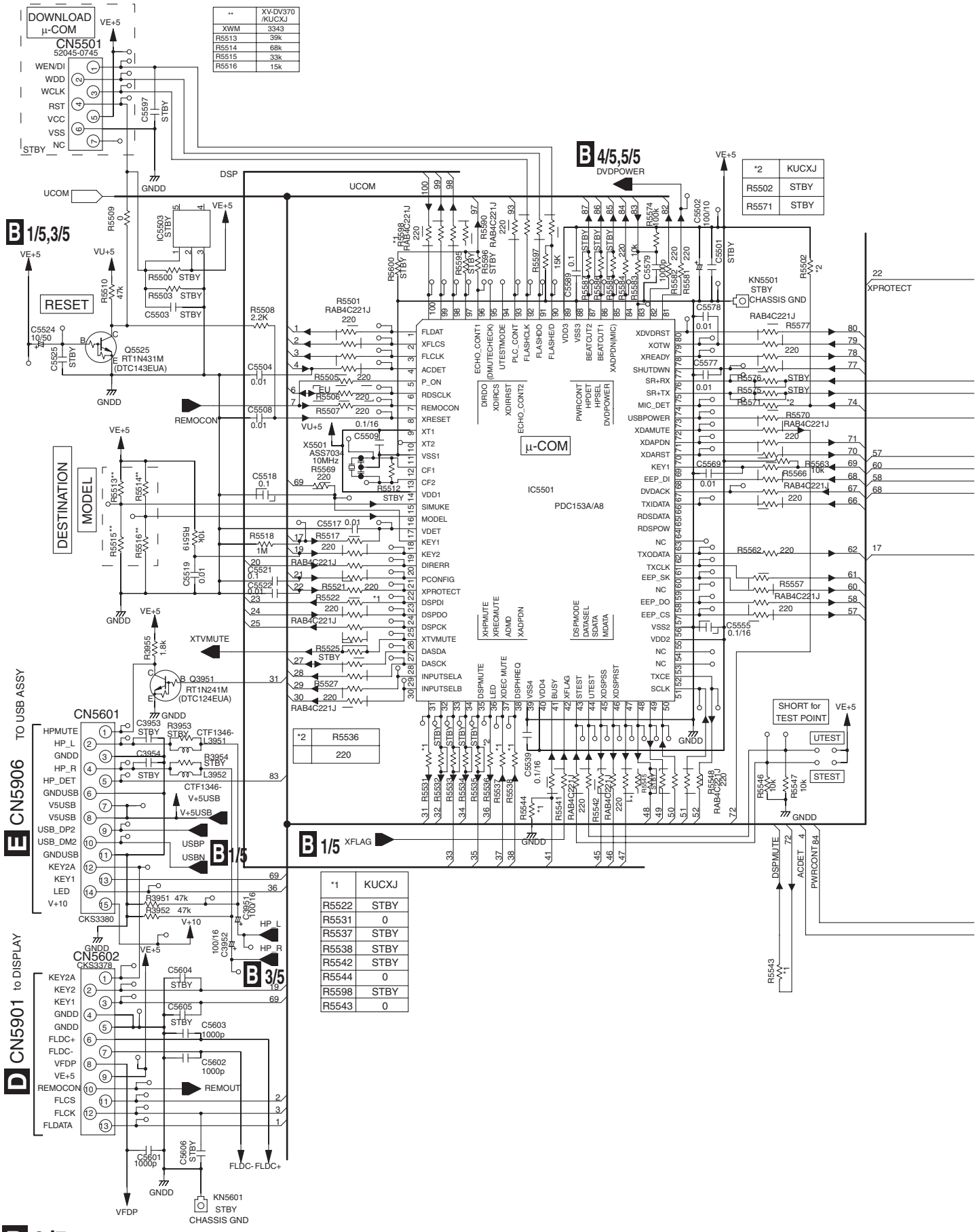
B 1/5 DVD MAIN ASSY (XWM3343)





*1	KUCXJ
R257	0
R240	0
R247	0
R243	10
R248	33
R249	-
R262	33
R263	33
R222	-

10.2 DVD MAIN ASSY (2/5)

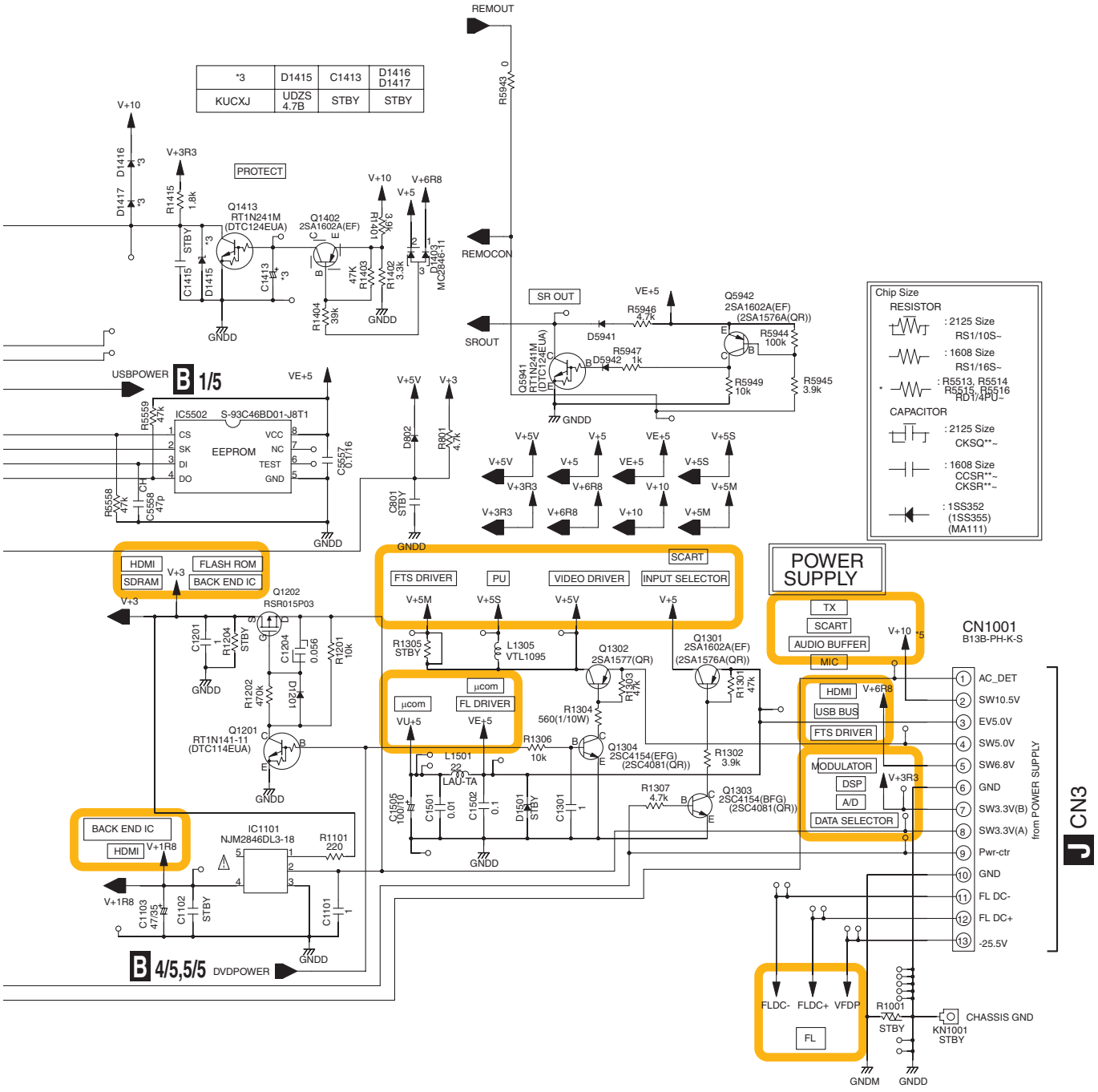


**	XV-DV370 /KUCXJ
XWM	3343
R5513	39k
R5514	68k
R5515	33k
R5516	15k

*2	KUCXJ
R5502	STBY
R5571	STBY

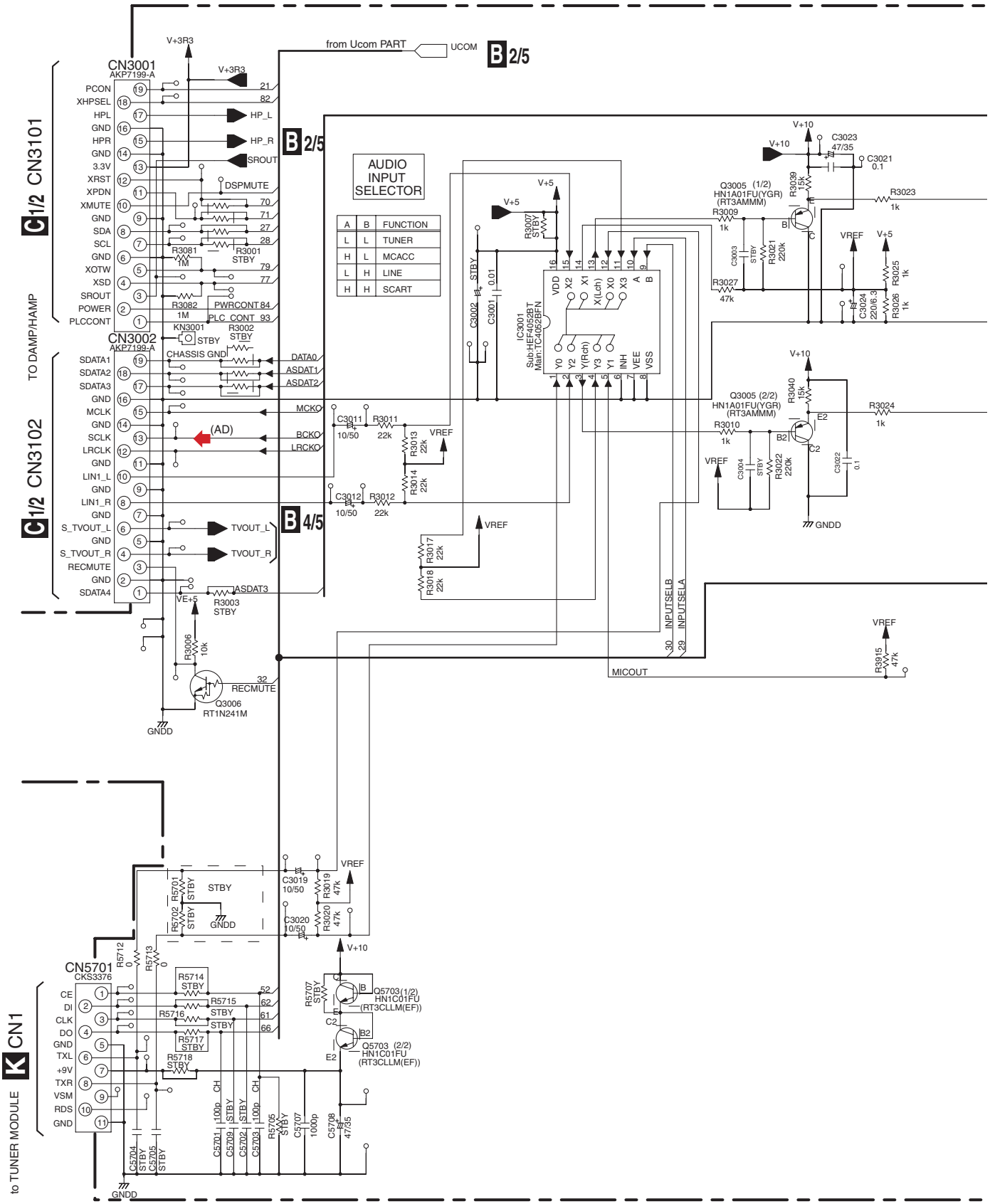
*2	R5536
	220

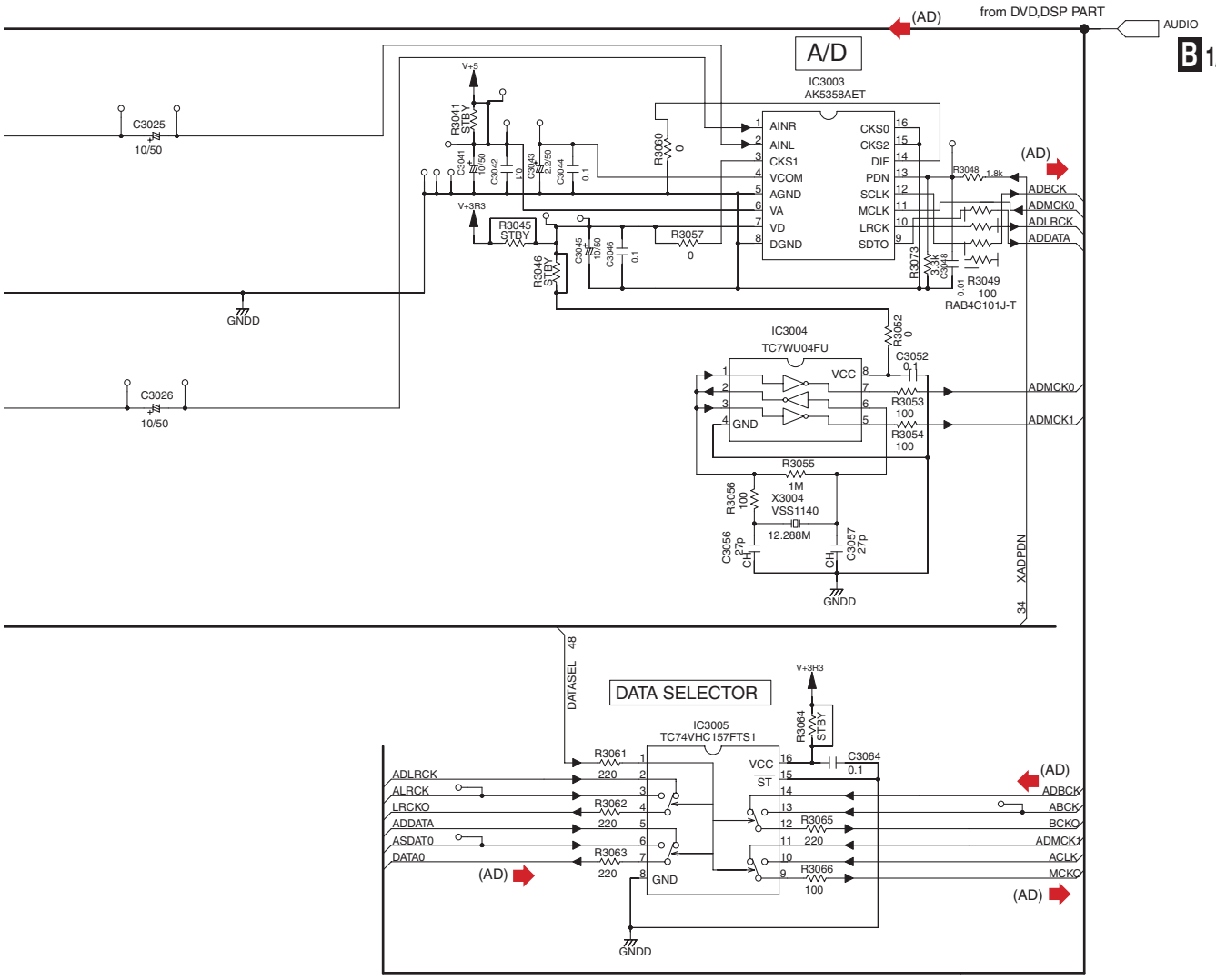
*1	KUCXJ
R5522	STBY
R5531	0
R5537	STBY
R5538	STBY
R5542	STBY
R5544	0
R5598	STBY
R5543	0



PCB BINDER: VEF1040-

10.3 DVD MAIN ASSY (3/5)

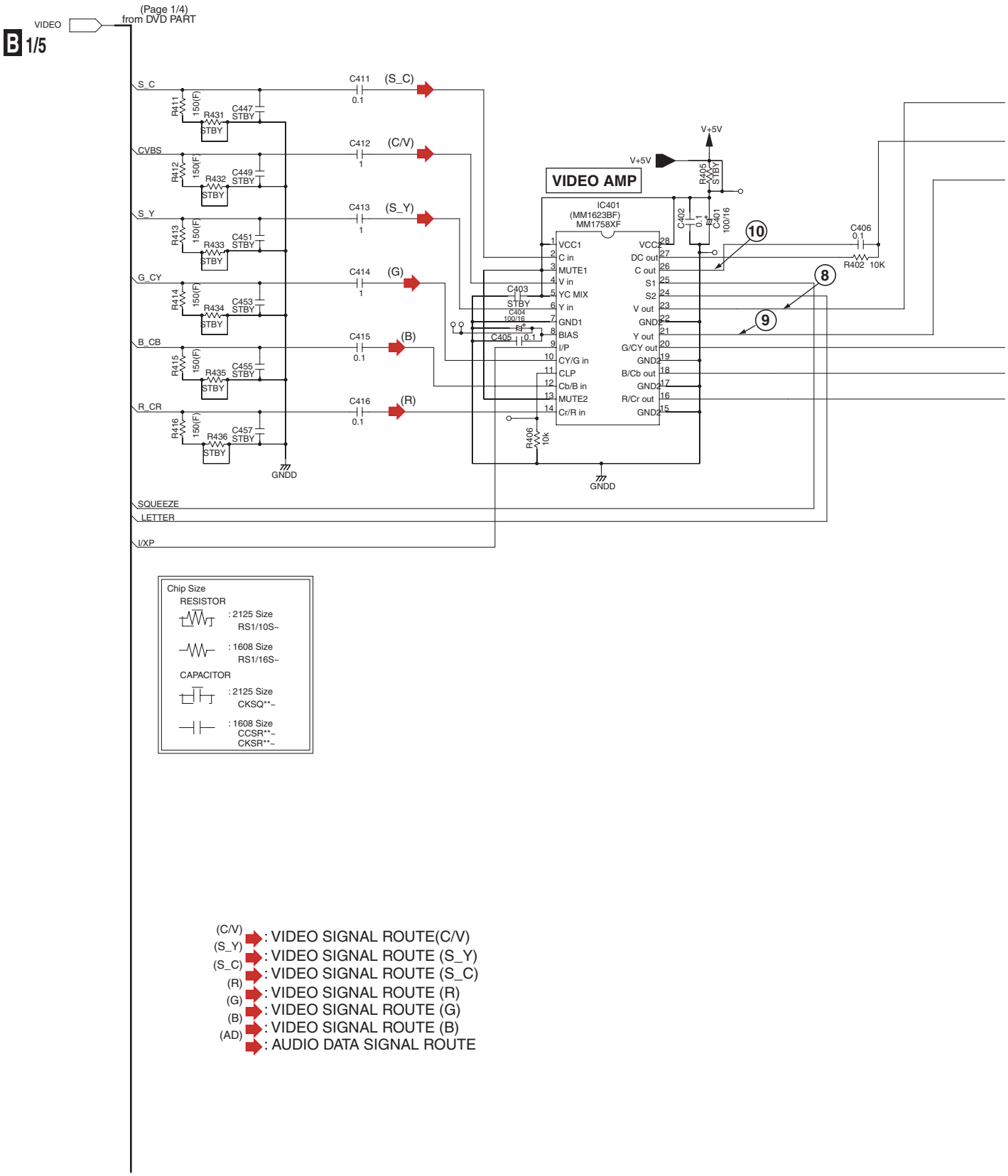




Chip Size
RESISTOR
: 2125 Size RS1/10S~
: 1608 Size RS1/16S~
CAPACITOR
: 2125 Size CKSQ**~
: 1608 Size CCSR**~ CKSR**~

(AD) : AUDIO DATA SIGNAL ROUTE

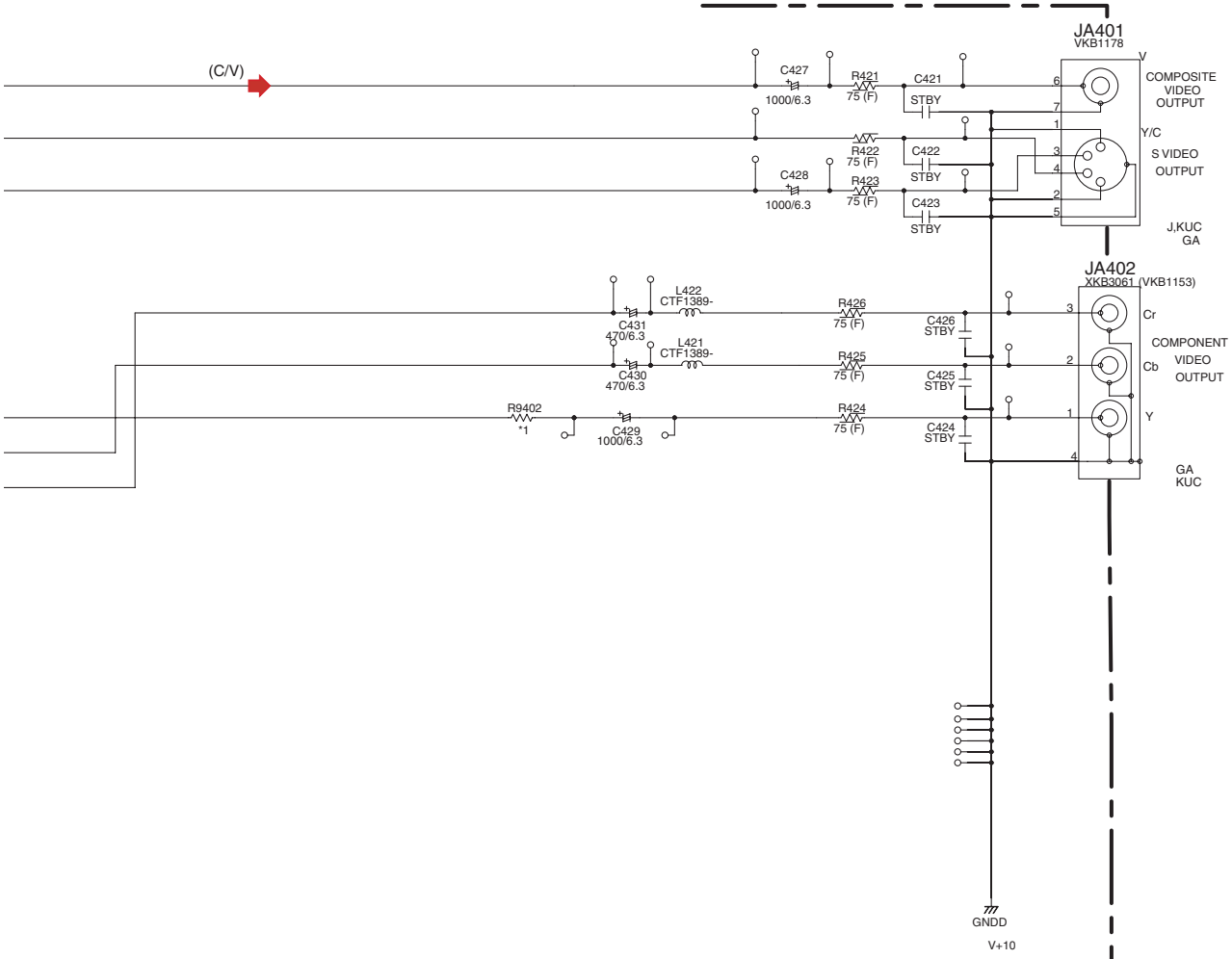
10.4 DVD MAIN ASSY (4/5)



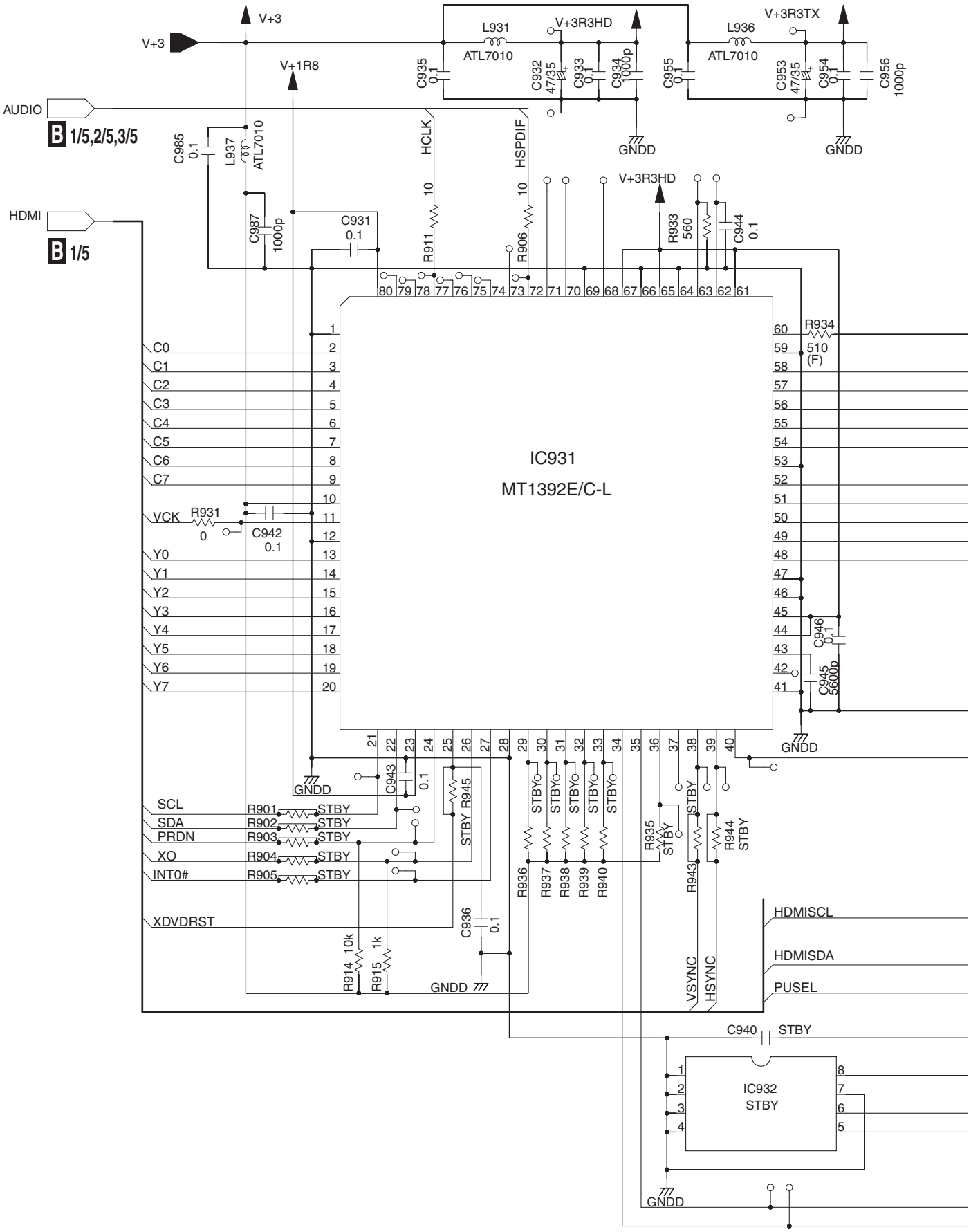
(C/V) : VIDEO SIGNAL ROUTE(C/V)
(S_Y) : VIDEO SIGNAL ROUTE (S_Y)
(S_C) : VIDEO SIGNAL ROUTE (S_C)
(R) : VIDEO SIGNAL ROUTE (R)
(G) : VIDEO SIGNAL ROUTE (G)
(B) : VIDEO SIGNAL ROUTE (B)
(AD) : AUDIO DATA SIGNAL ROUTE

B 4/5

B 4/5 DVD MAIN ASSY (XWM3343)

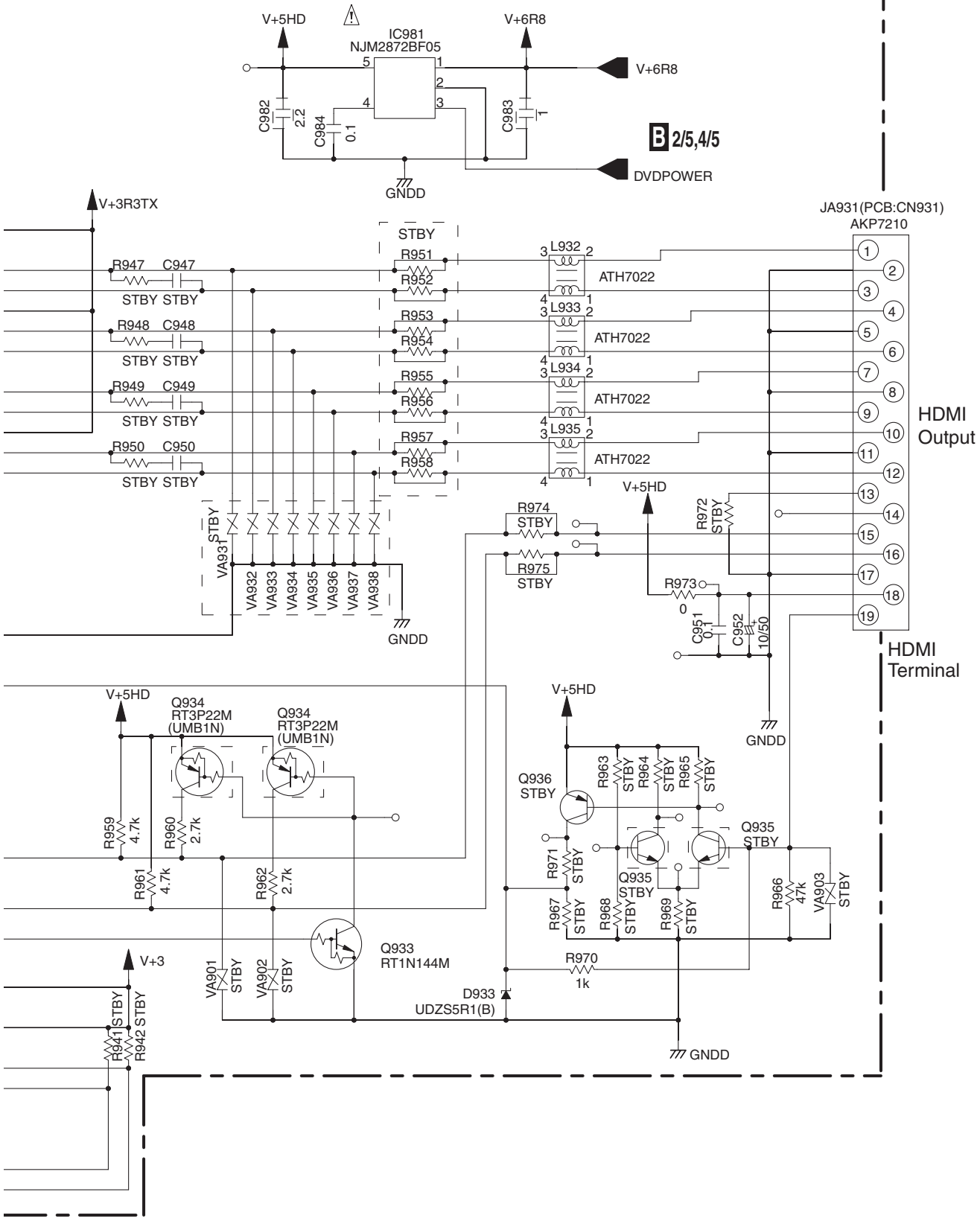


10.5 DVD MAIN ASSY (5/5)

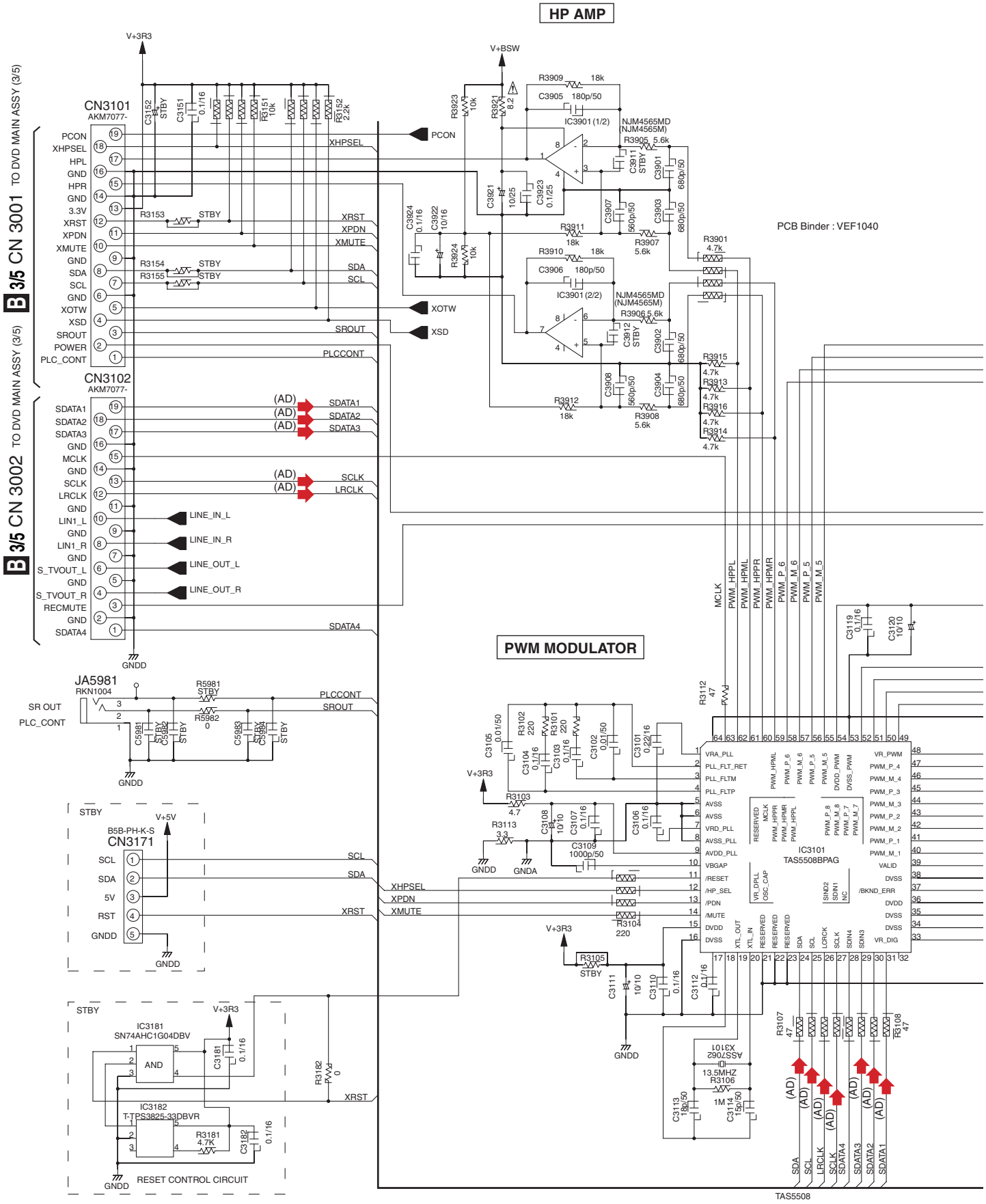


B 5/5

B 5/5 DVD MAIN ASSY (XWM3343)

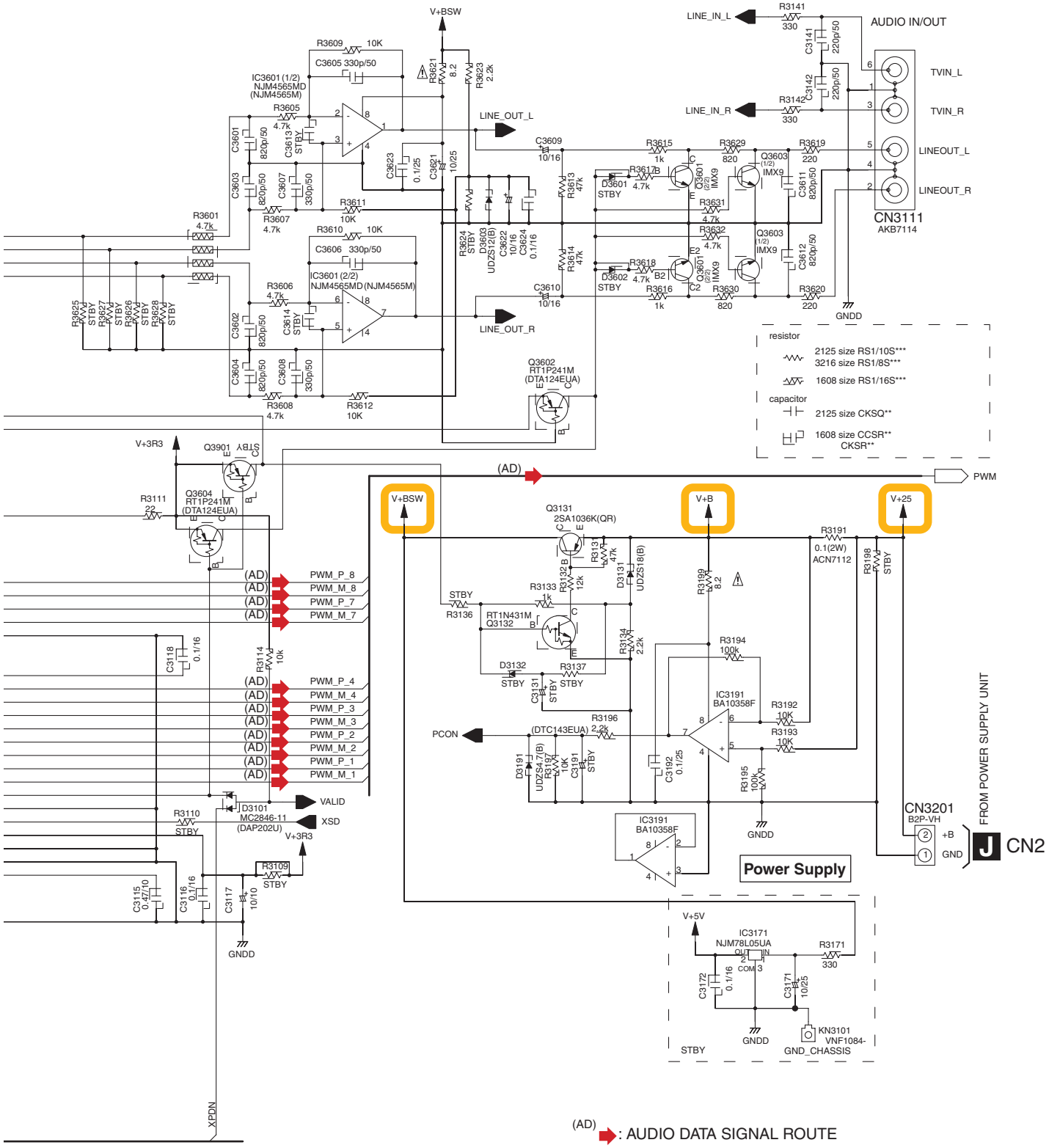


10.6 DAMP ASSY (1/2)



C 1/2

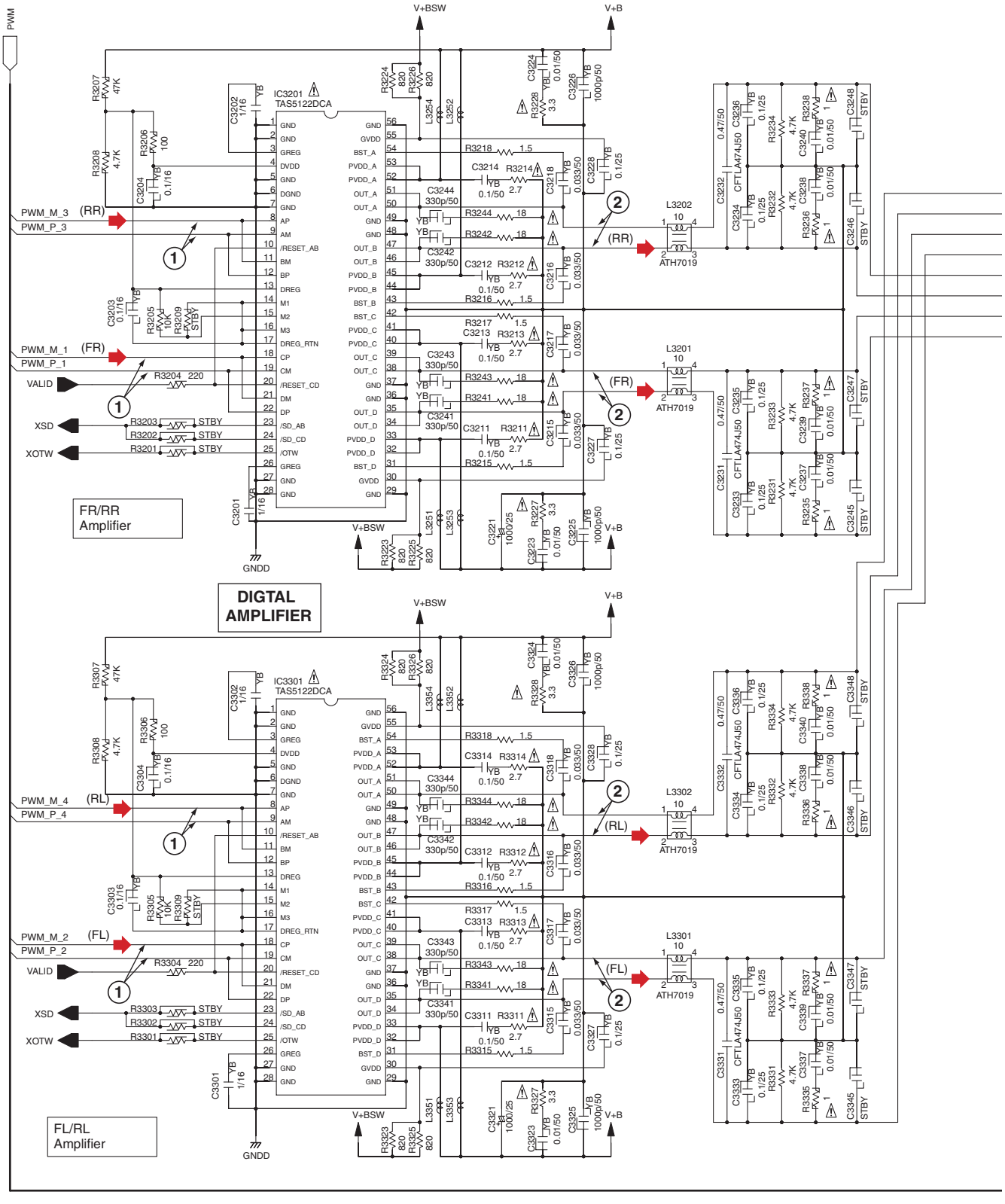
C 1/2 DAMP ASSY (XWK3318)



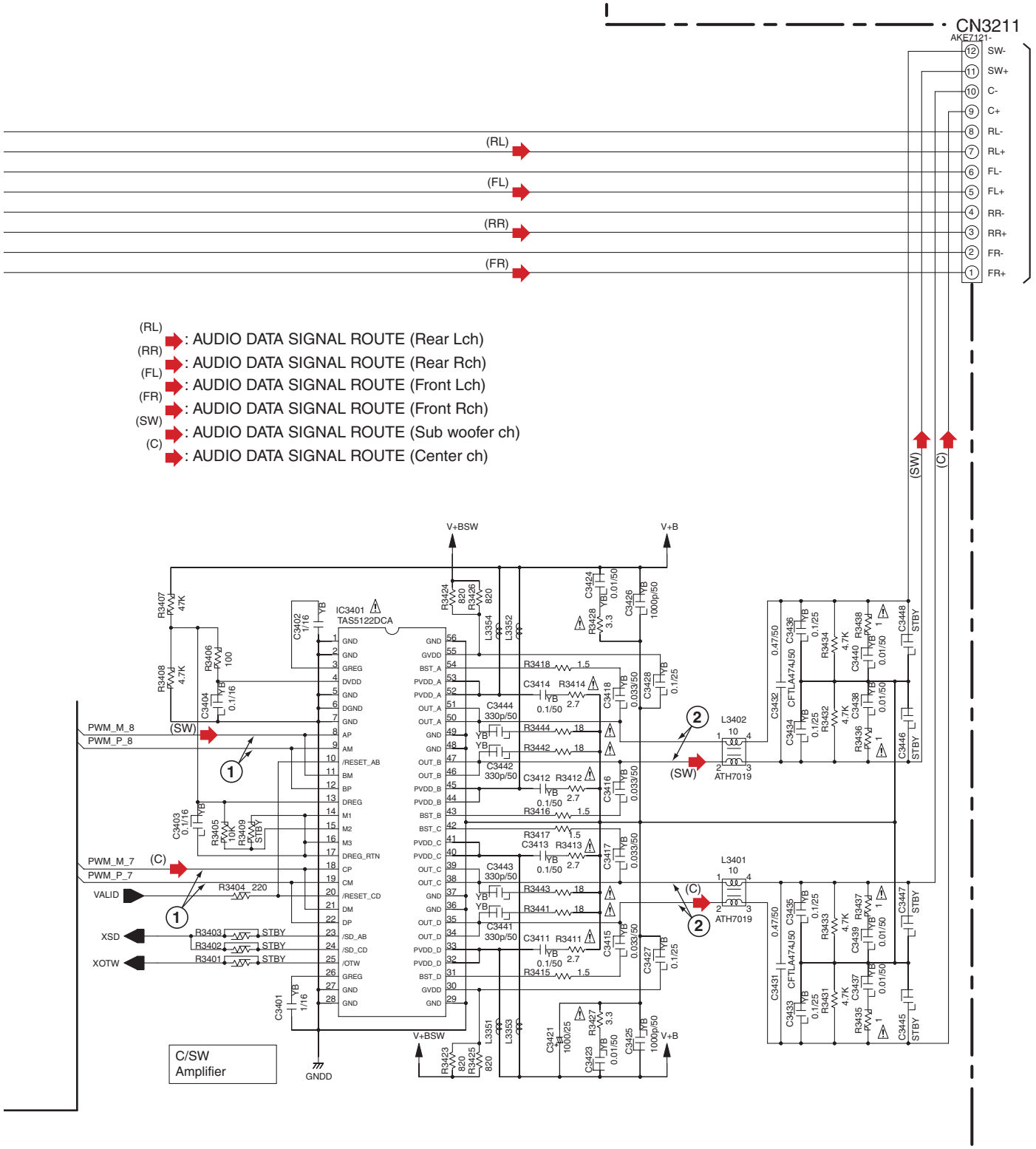
(AD) : AUDIO DATA SIGNAL ROUTE

C 1/2

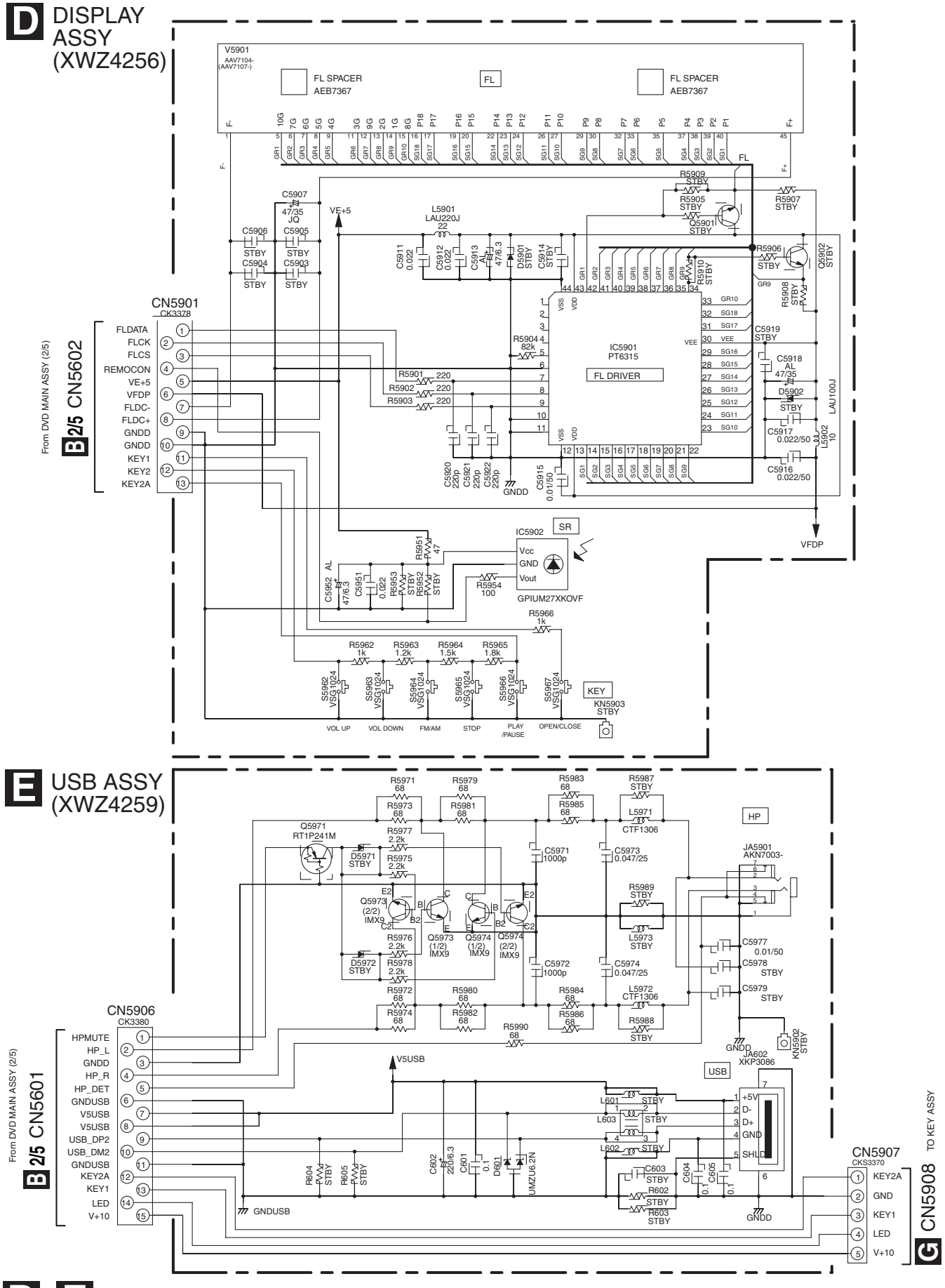
10.7 DAMP ASSY (2/2)



NOTICE
R3211 - R3214,R3311 - R3314,R3411 - R3414 : ACN7148-(2.7 Ω)(SUB:ACN7141-(2.7 Ω)) (2W)


CN3211
AKE7121-
SW-
SW+
C-
C+
RL-
RL+
FL-
FL+
RR-
RR+
FR-
FR+
6ch SP OUT
(RL)
(FL)
(RR)
(FR)
(RL) : AUDIO DATA SIGNAL ROUTE (Rear Lch)
(RR) : AUDIO DATA SIGNAL ROUTE (Rear Rch)
(FL) : AUDIO DATA SIGNAL ROUTE (Front Lch)
(FR) : AUDIO DATA SIGNAL ROUTE (Front Rch)
(SW) : AUDIO DATA SIGNAL ROUTE (Sub woofer ch)
(C) : AUDIO DATA SIGNAL ROUTE (Center ch)
V+BSW
V+B
IC3401
TAS5122DCA
PWM_M_8
PWM_P_8
PWM_M_7
PWM_P_7
VALID
XSD
XOTW
L3401
L3402
ATH7019
C/SW
Amplifier
GNDD

10.8 DISPLAY, USB, LED and KEY ASSYS



NOTES

ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED

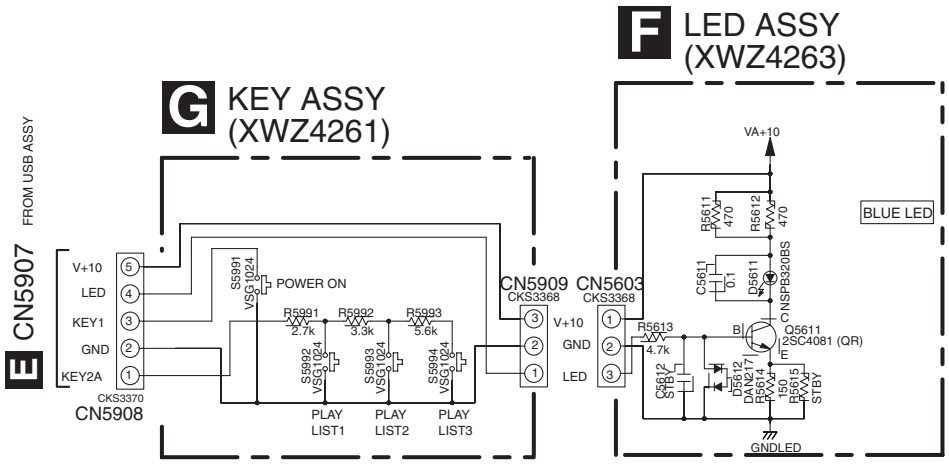
CKSRYB**K50
JQ : CEJQ**M**
AL : CEAL**M**
AT : CEAT**M**

ALL RESISTORS ARE IN Ω

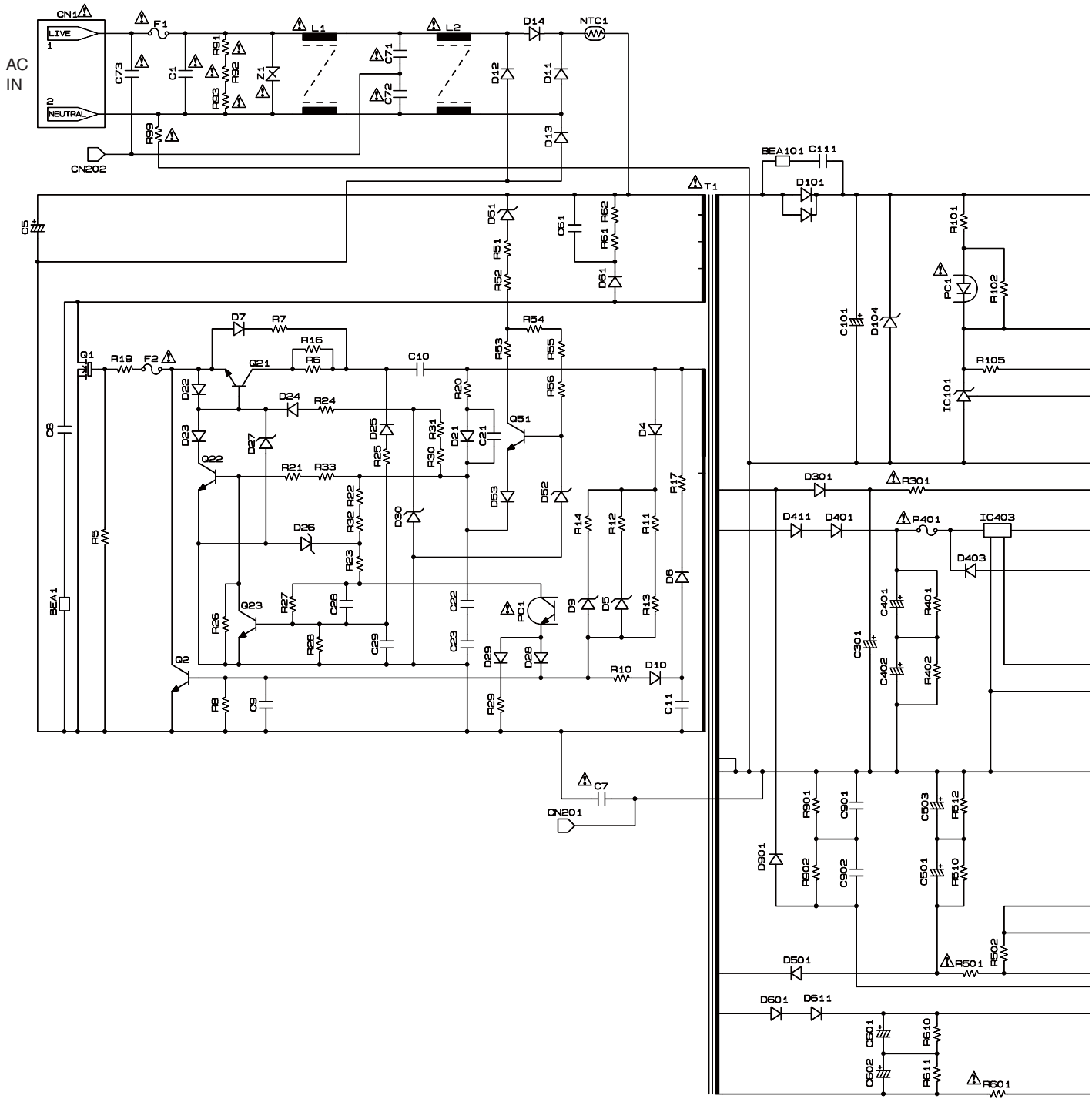
RS1/16S***J
RS1/10S***J

ALL INDUCTORS ARE IN μH

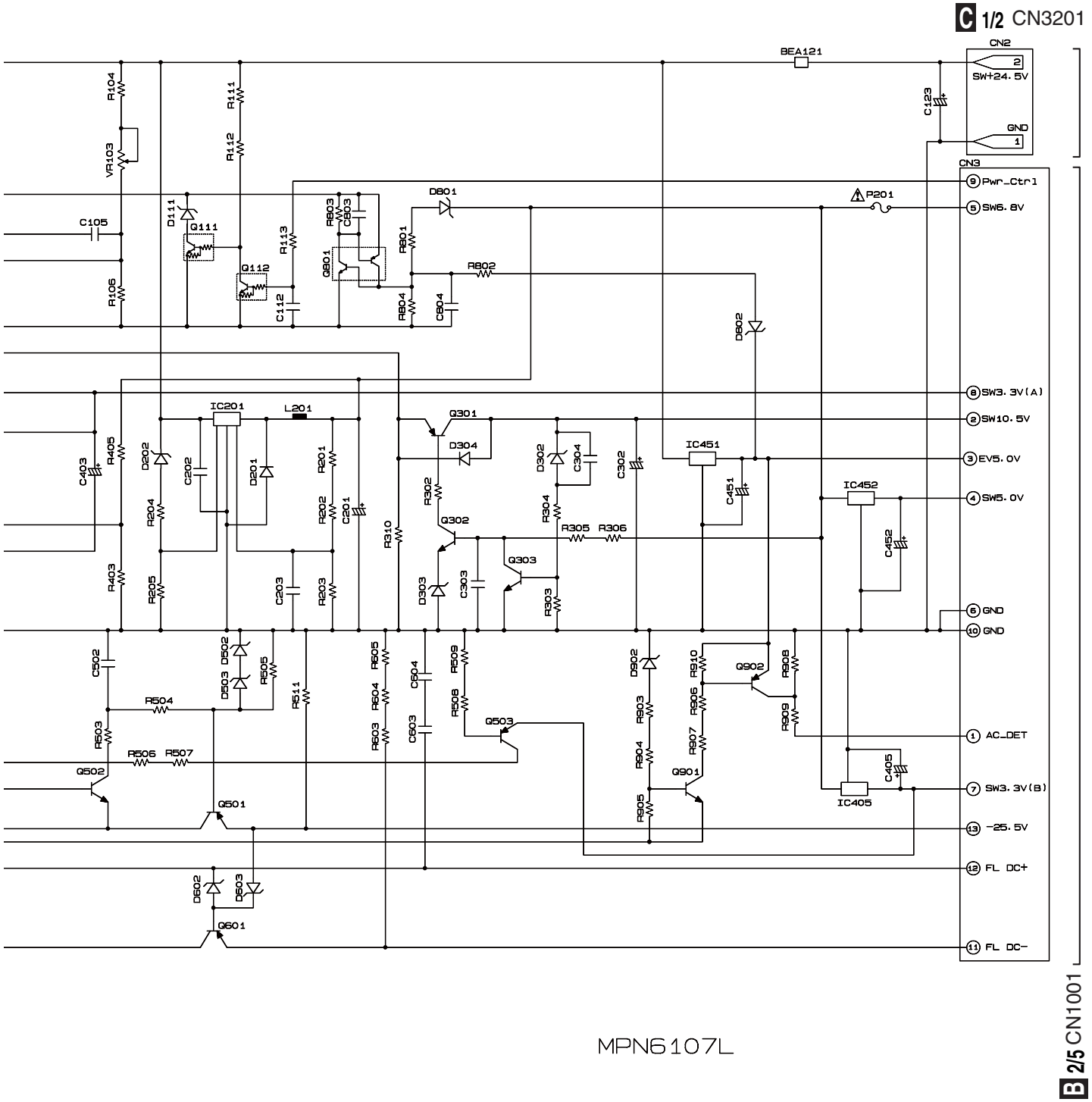
LAU***J-TA



10.9 POWER SUPPLY UNIT



J POWER SUPPLY UNIT (XWR3014)



10.10 WAVEFORMS

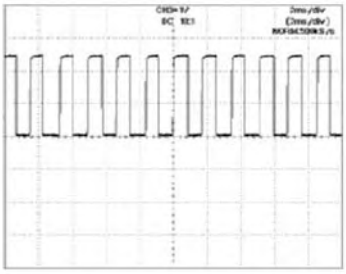
Note : The encircled numbers denote measuring point in the schematic diagram.

B DVD MAIN ASSY

Measurement condition ;

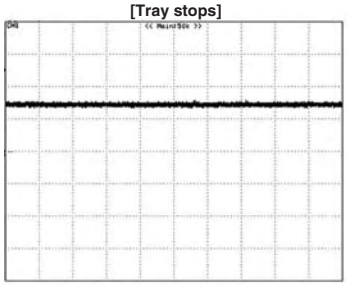
No. 1 to 10 : reference A1 (DVD), T2-chp 19, Color-bar
No. 11 to 14 : reference A1 (DVD), T1

1 **IC201-pin50 [FG]**
V: 1V/div. H: 2msec/div.

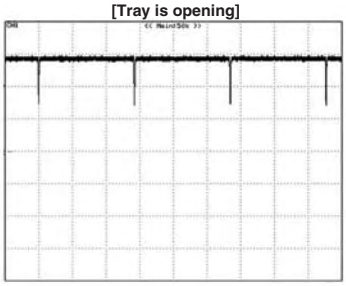


2 **IC201-pin 39 [TROPENPWM]**
V: 1V/div. H: 5µsec/div.

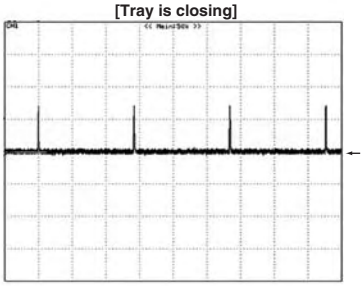
[Tray stops]



[Tray is opening]

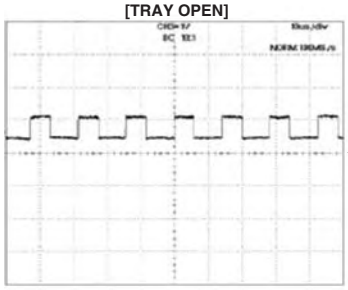


[Tray is closing]



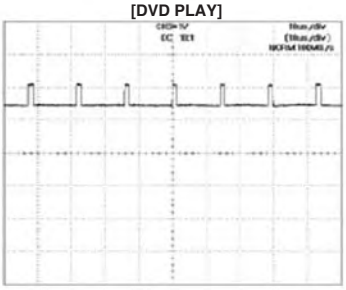
3 **IC201-pin37 [DMSO]**
V: 1V/div. H: 10µsec/div.

[TRAY OPEN]



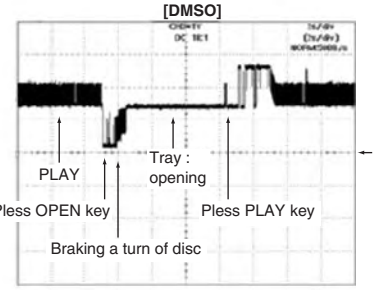
V: 1V/div. H: 10µsec/div.

[DVD PLAY]

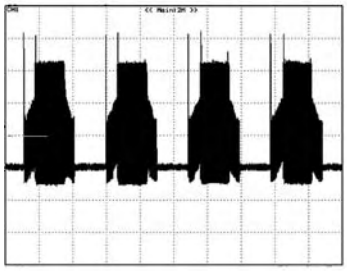


V: 1V/div. H: 2sec/div.

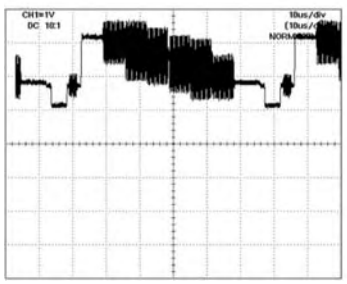
[DMSO]



4 **CN102-pin 11, 10, 9 (IC101-pin 30, 33, 35) [SPINDLE (WVU)]**
V: 2V/div. H: 2msec/div.

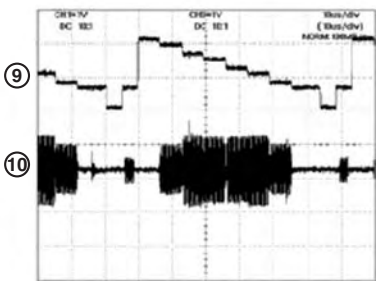


8 **IC401-pin23 [CompositeVideo Out]**
V: 1V/div. H: 10µsec/div.

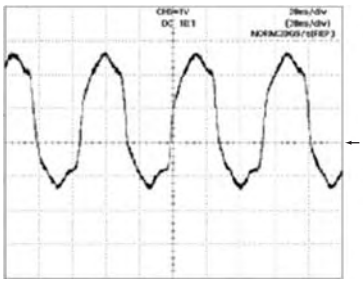


9 **IC401-pin21 [S VIDEO OUT - Y]**
V: 1V/div. H: 10µsec/div.

10 **IC401-pin26 [S VIDEO OUT - C]**
V: 1V/div. H: 10µsec/div.



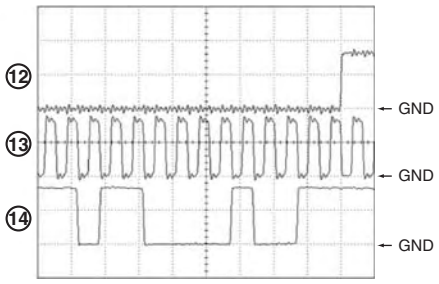
⑪ IC201-pin211 [ACLK]
V: 1V/div. H: 20nsec/div.



⑫ IC201-pin209 [ALRCK]
V: 2V/div. H: 500nsec/div.

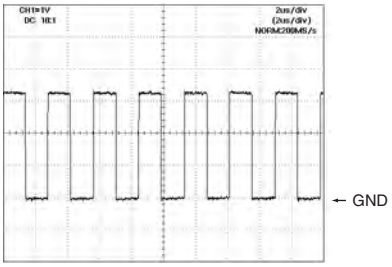
⑬ IC201-pin210 [ABCK]
V: 2V/div. H: 500nsec/div.

⑭ IC201-pin197 [ASDATA0]
V: 2V/div. H: 500sec/div.

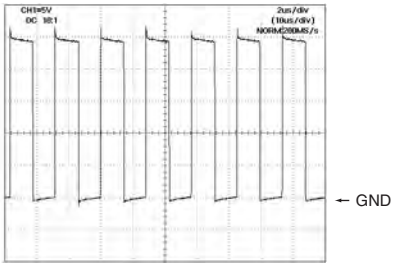


C DAMP ASSY

① IC3201, IC3301, IC3401 [PWM_M, PWM_P]
V: 1V/div. H: 2µsec/div.



② IC3201, IC3301, IC3401 [OUT_A, B, C, D]
V: 5V/div. H: 2µsec/div.



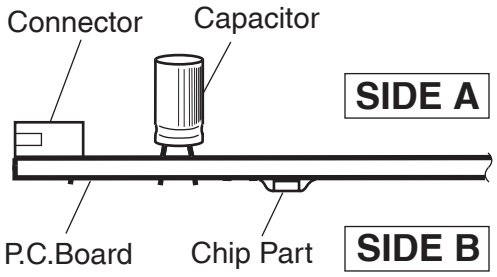
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

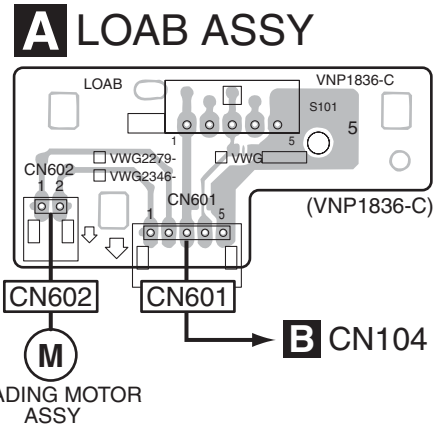
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

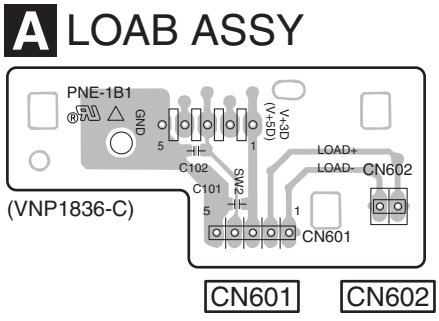


11.1 LOAB ASSY

SIDE A

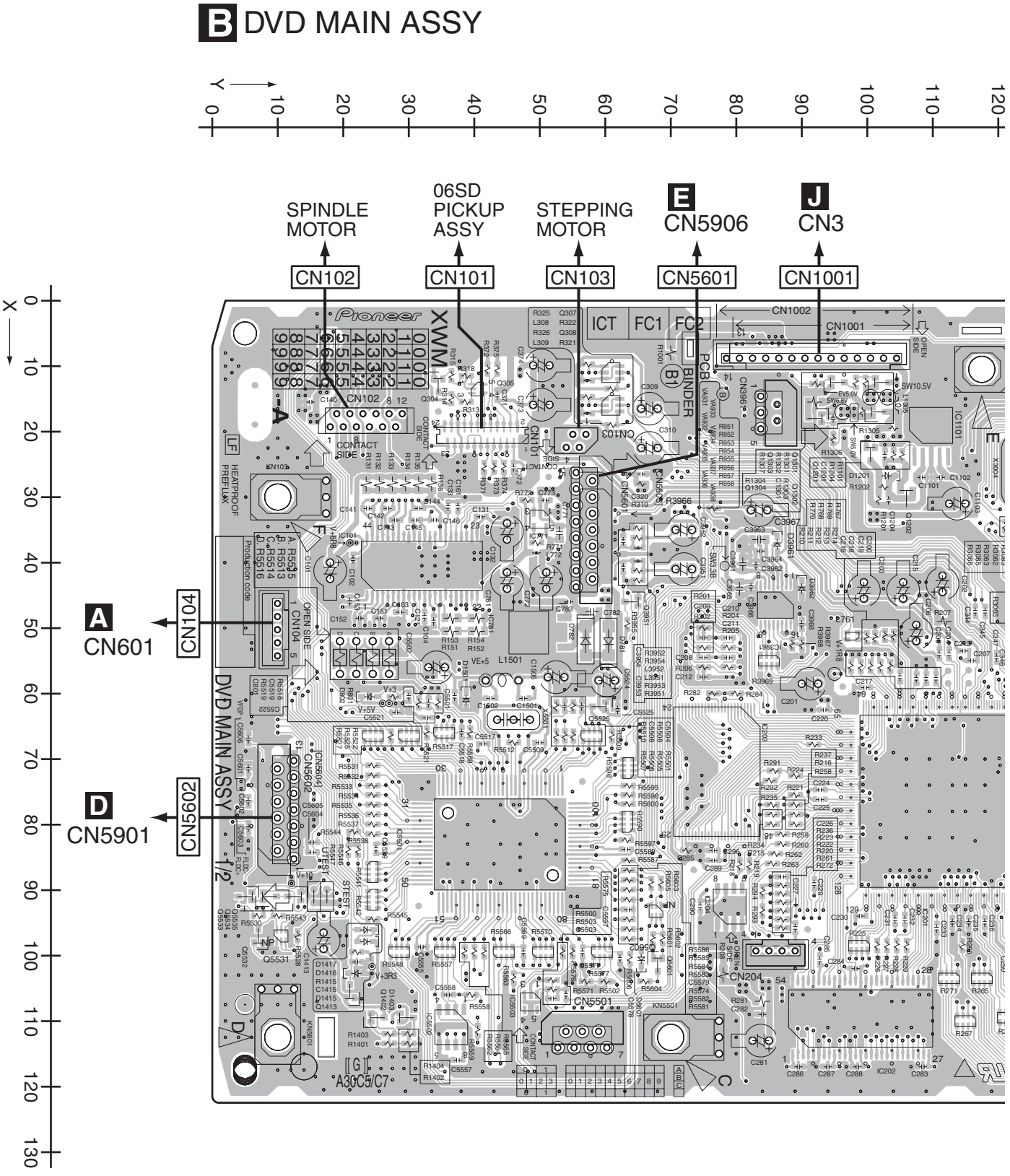


SIDE B



11.2 DVD MAIN ASSY

SIDE A



SIDE A

A

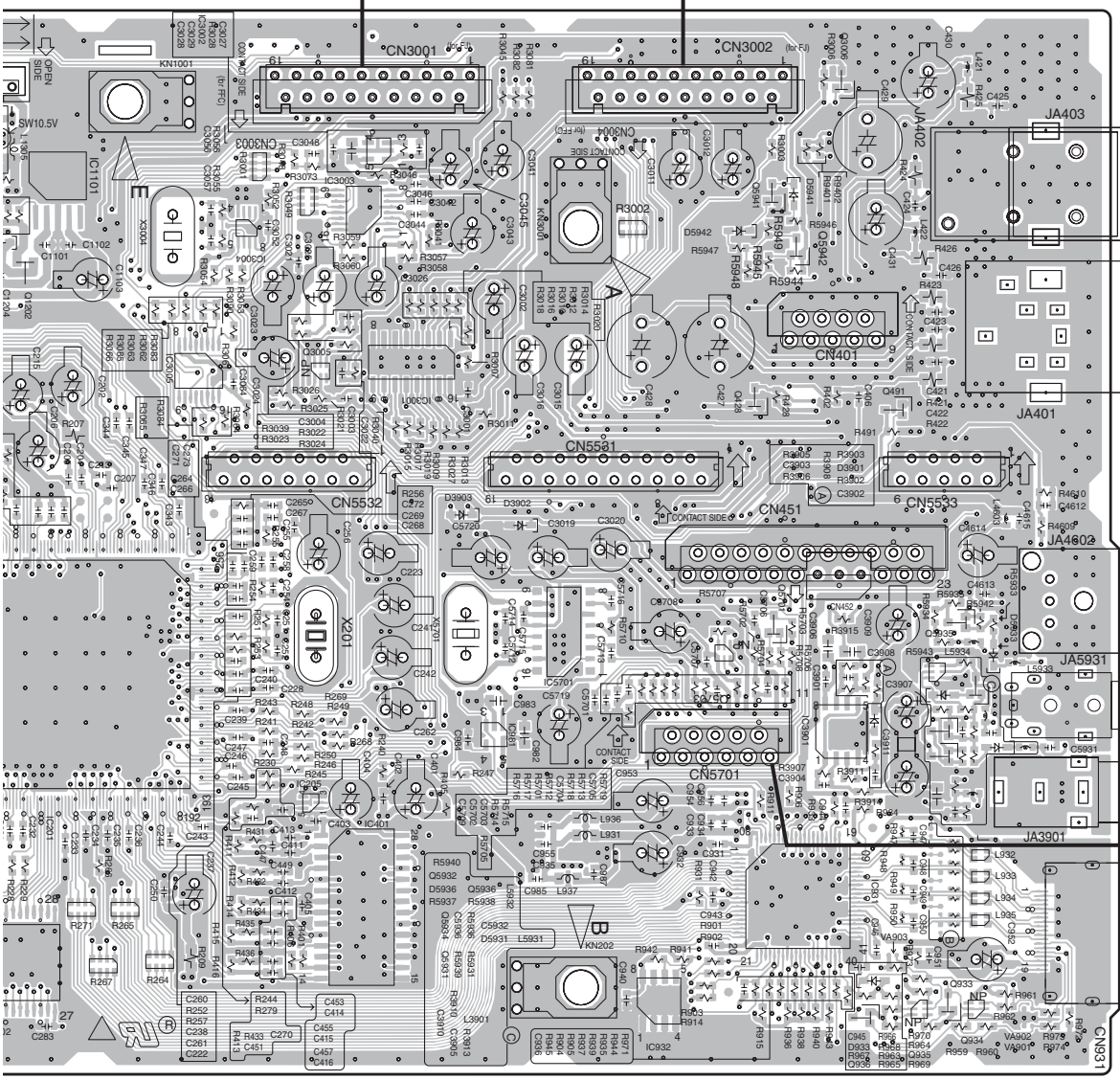
110 120 130 140 150 160 170 180 190 200 210 220 230 240

B

C CN3101 C CN3102

CN3001 CN3002

C



D

CN5701 → FM/AM TUNER UNIT

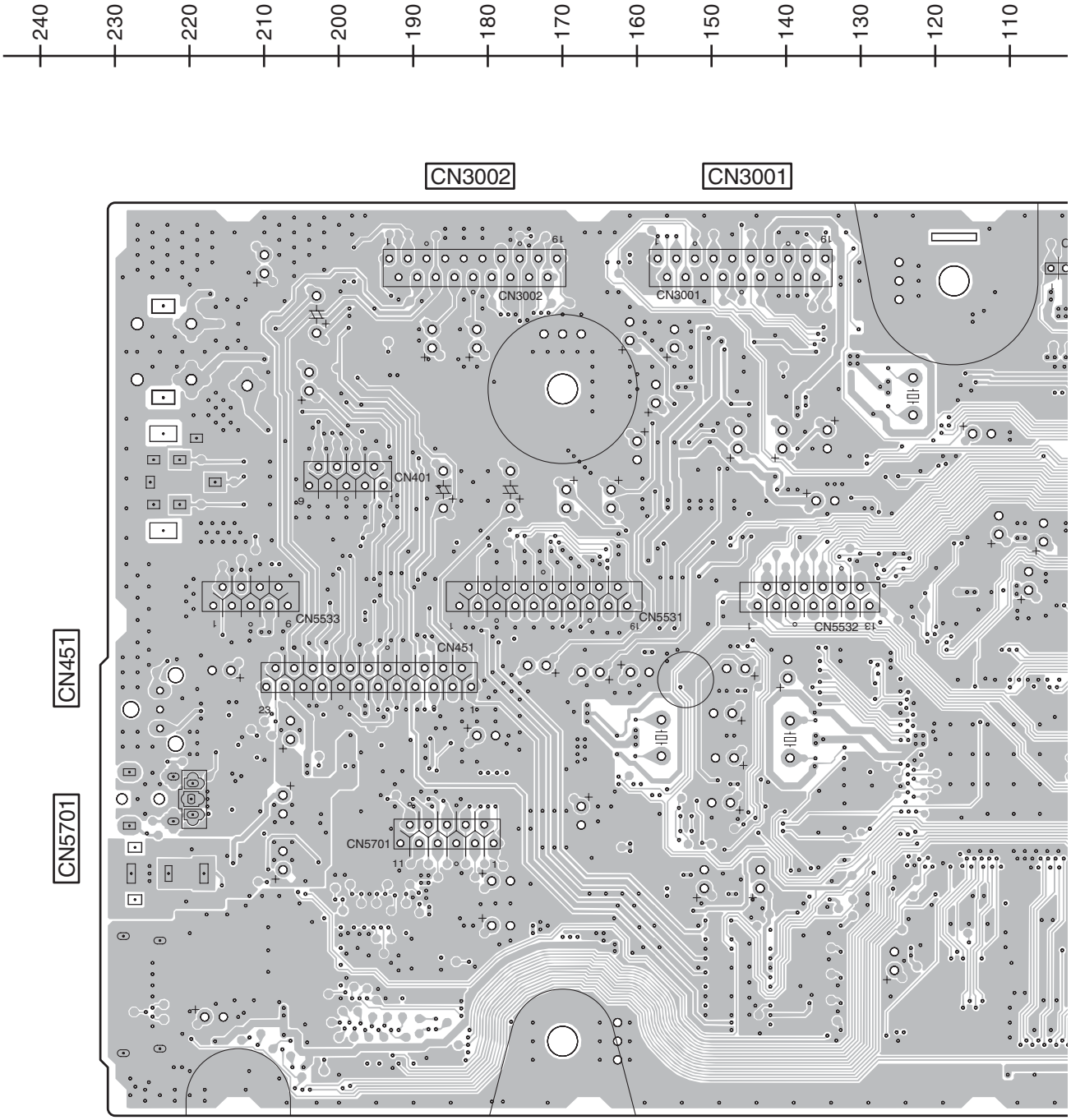
E

(XNP3111-A) or (XNP3124-A)

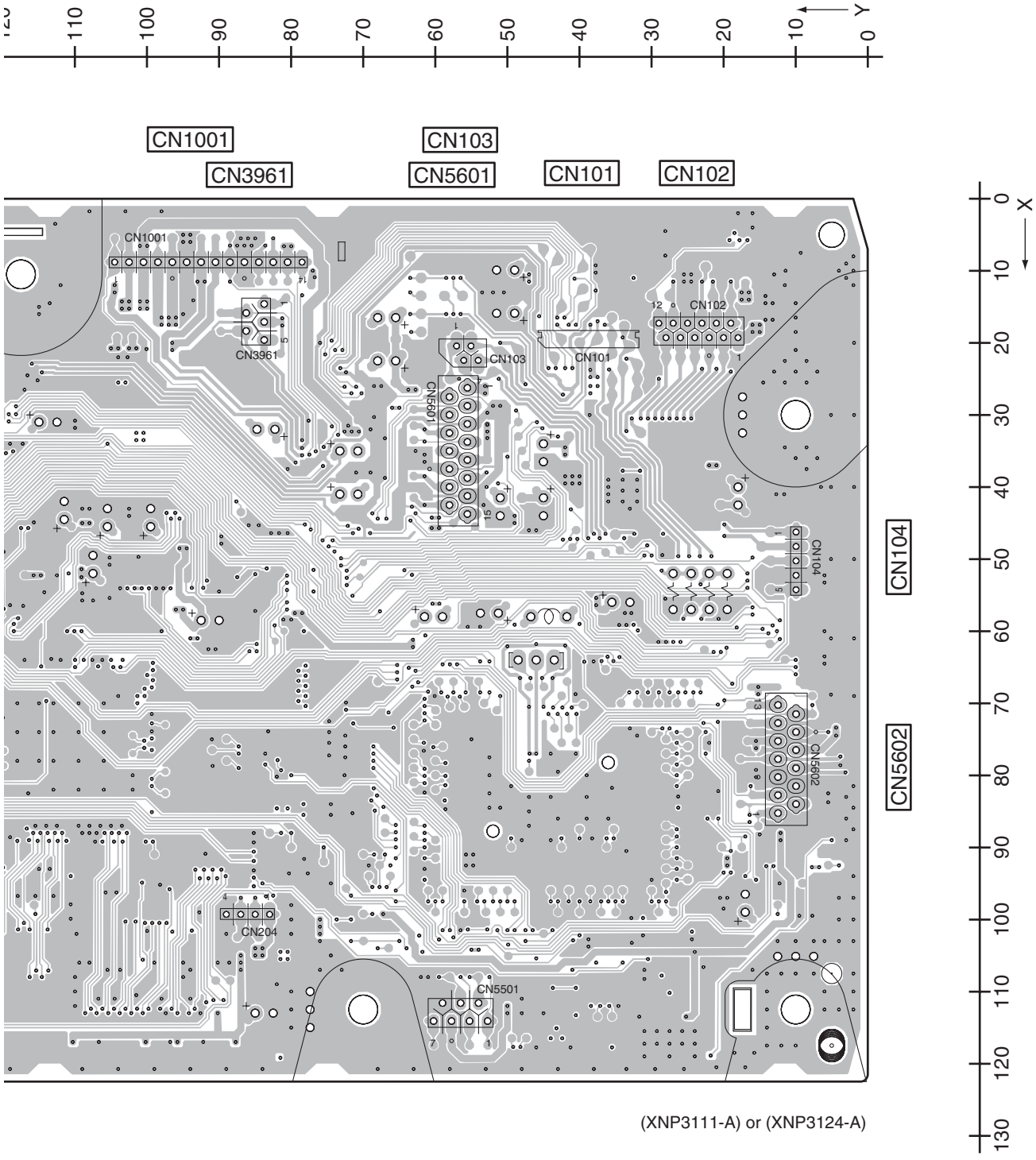
F

SIDE B

B DVD MAIN ASSY

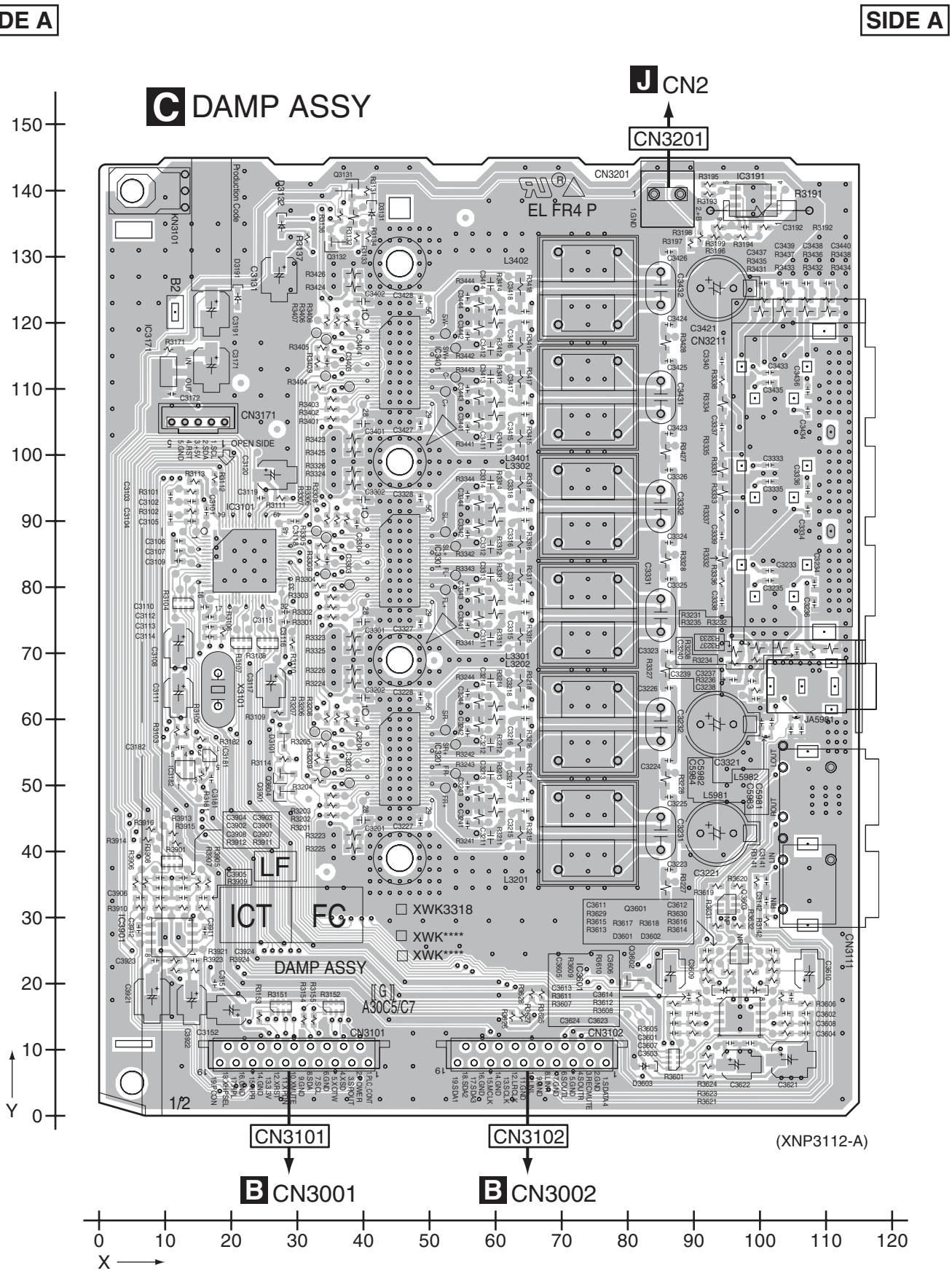


SIDE B



(XNP3111-A) or (XNP3124-A)

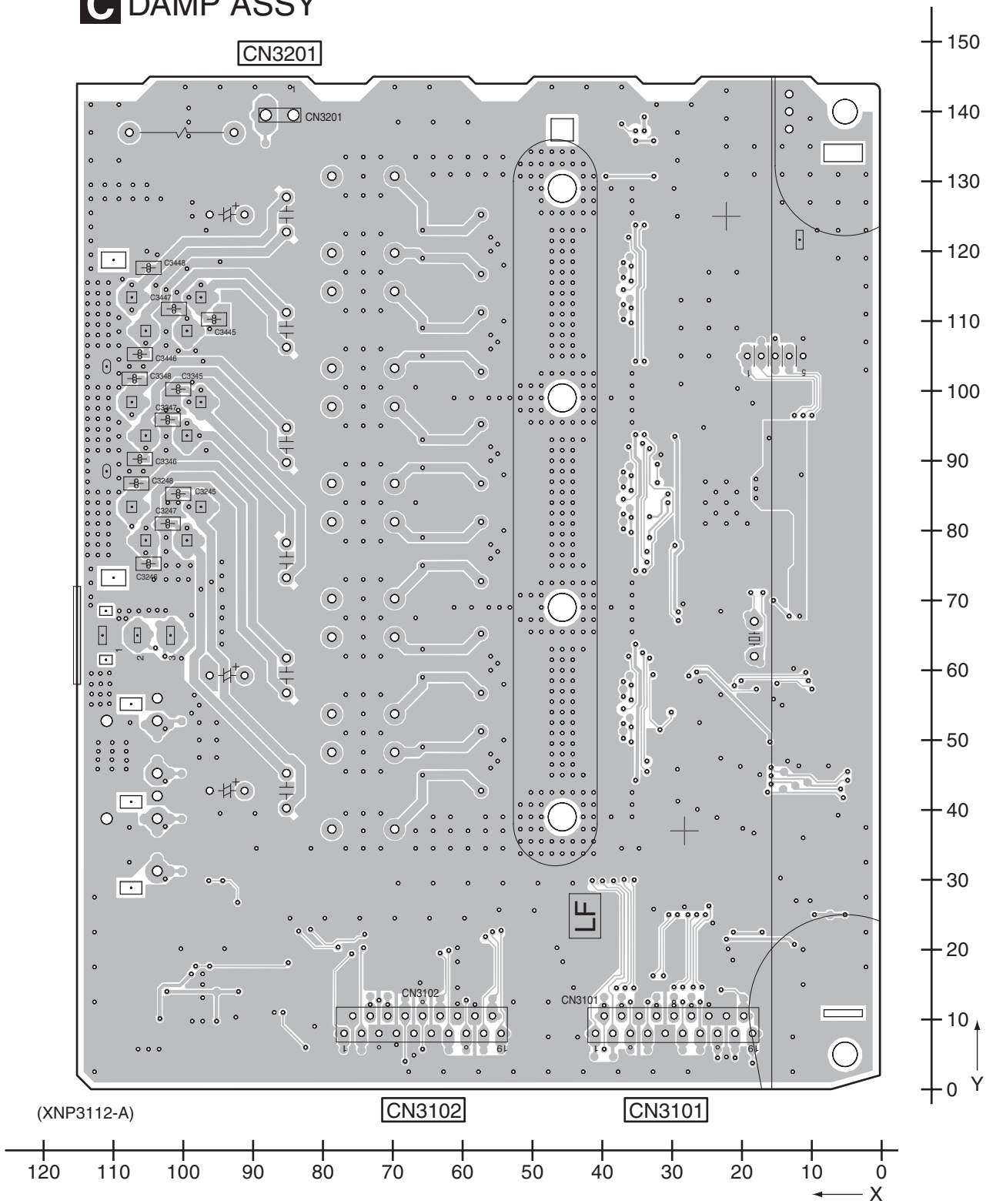
11.3 DAMP ASSY



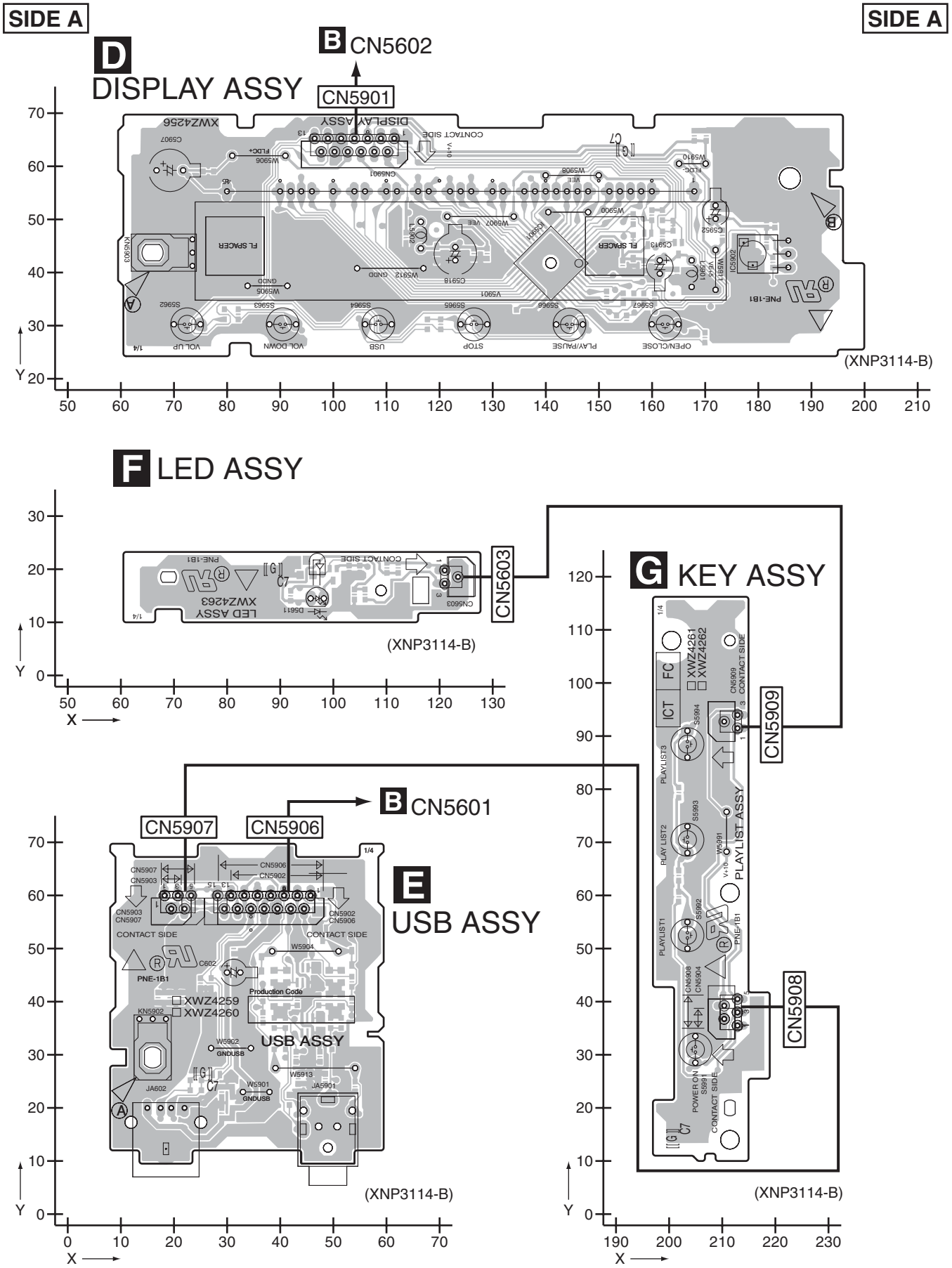
SIDE B

SIDE B

C DAMP ASSY



11.4 DISPLAY, USB, LED and KEY ASSYS

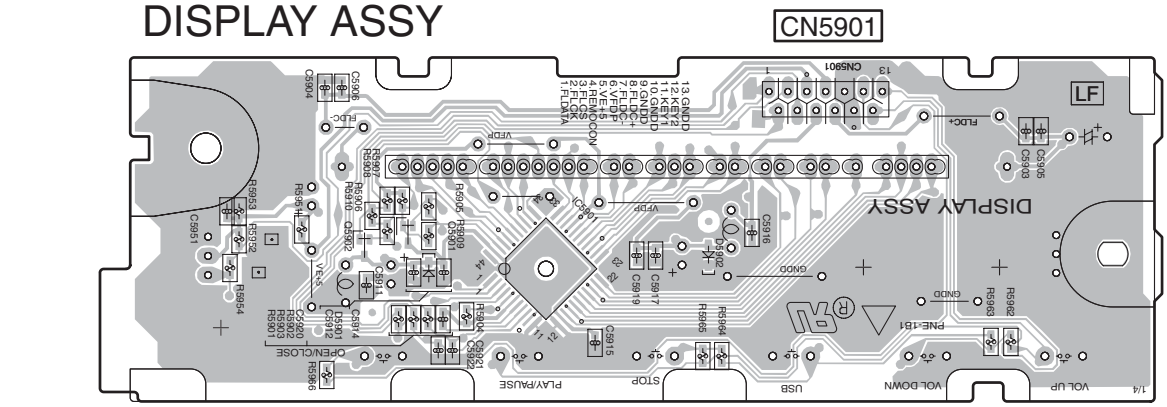


SIDE B

SIDE B

D DISPLAY ASSY

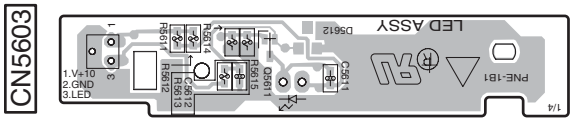
CN5901



(XNP3114-B)

F LED ASSY

CN5603

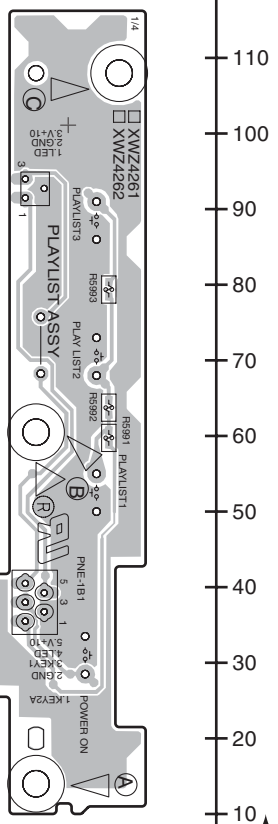


(XNP3114-B)

G KEY ASSY

CN5909

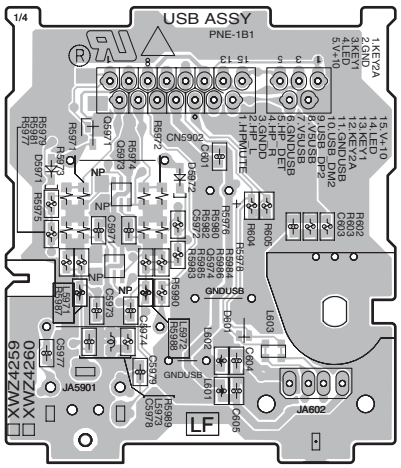
CN5908



(XNP3114-B)

E USB ASSY

CN5906 CN5907



(XNP3114-B)

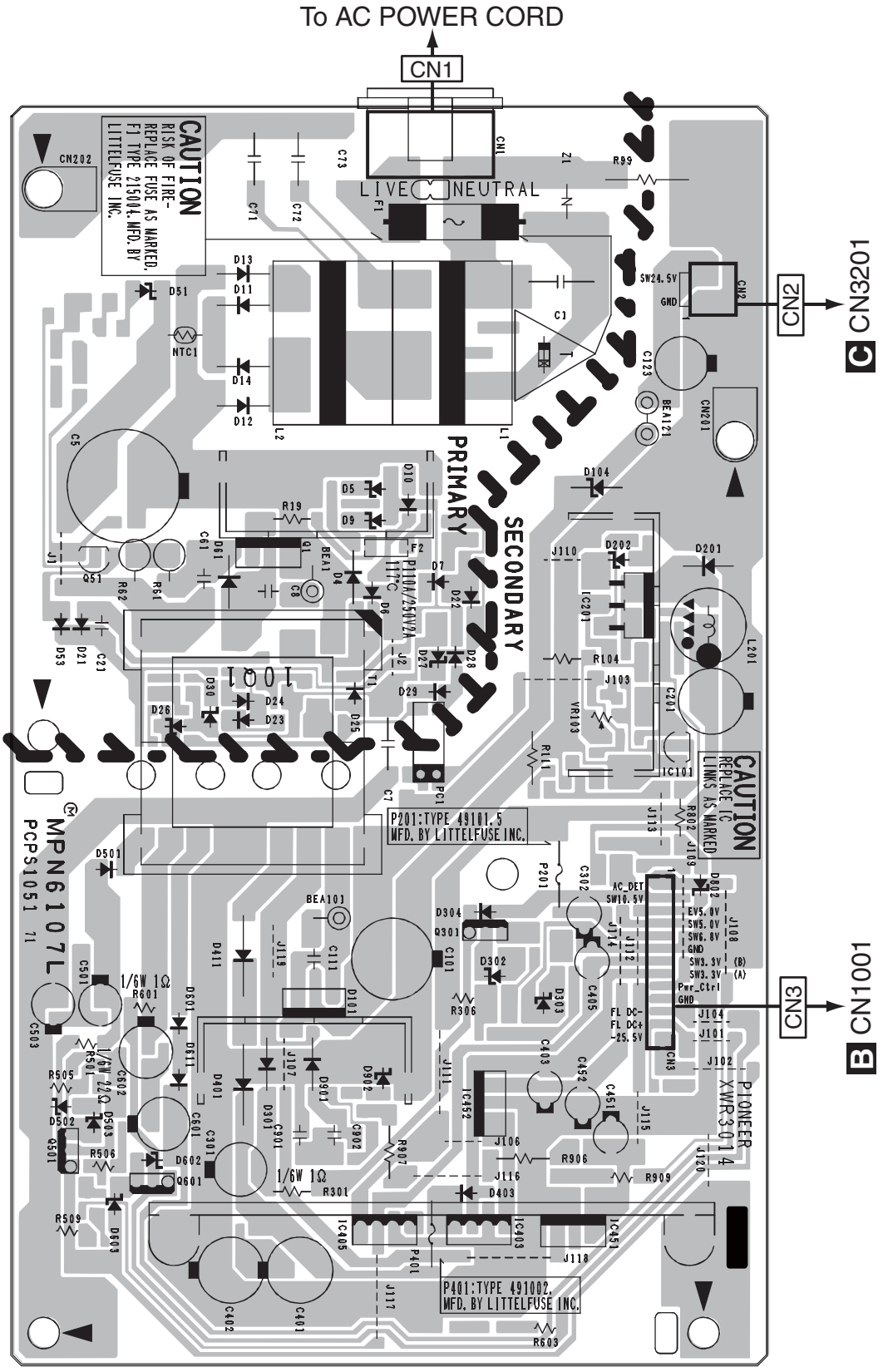
D E F G

D E F G

SIDE A

SIDE A

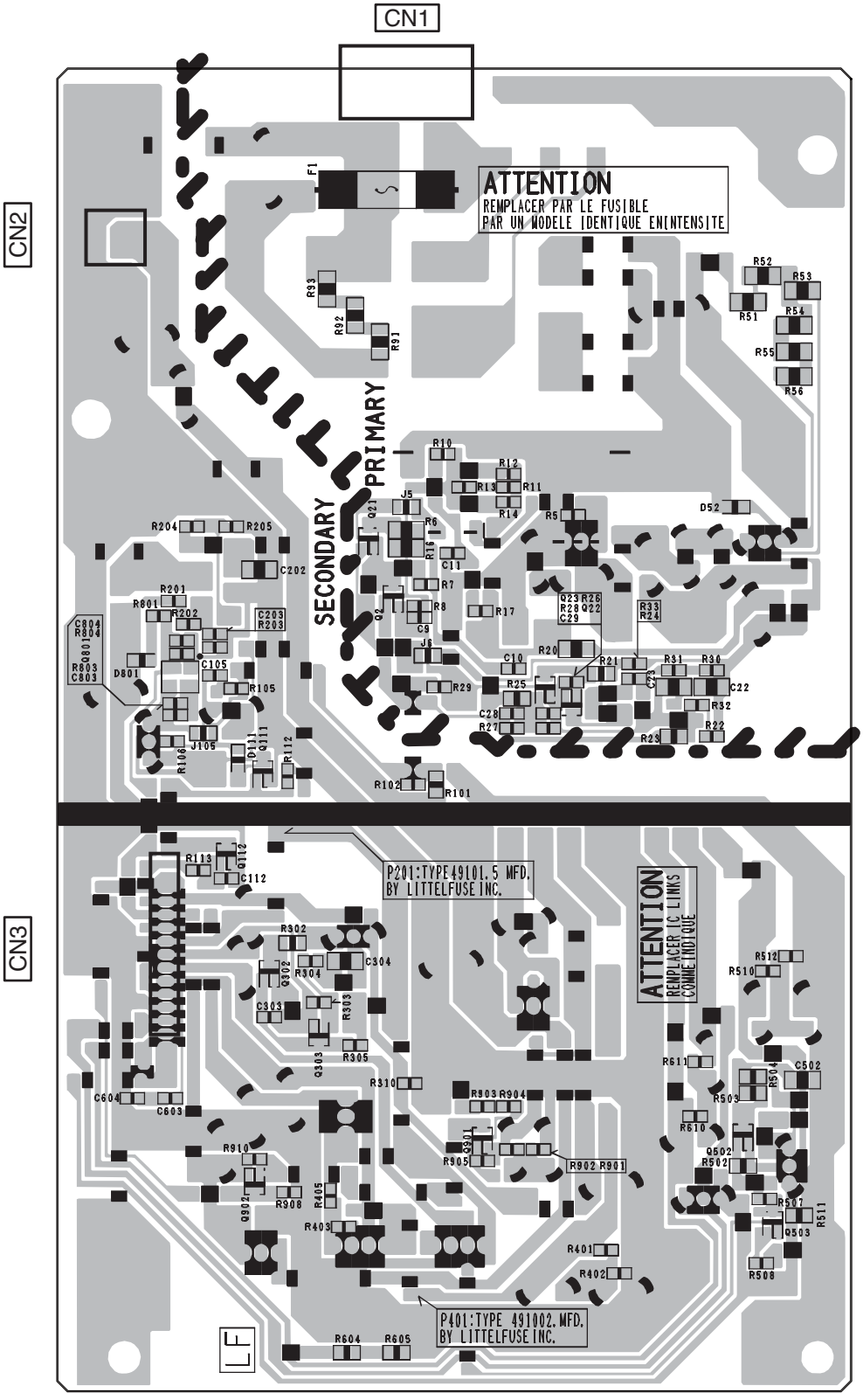
J POWER SUPPLY UNIT



SIDE B

SIDE B

J POWER SUPPLY UNIT



J

J

12. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10[1] → 561 ····· RD1/4PU 5 6 1 J
47k Ω → 47 x 10[3] → 473 ····· RD1/4PU 4 7 3 J
0.5 Ω → R50 ····· RN2H R 5 0 K
1 Ω → 1R0 ····· RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10[1] → 5621 ····· RN1/4PC 5 6 2 1 F

● *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP	1	..LOAB ASSY	VWG2346
	1	..DAMP ASSY	XWK3318
	1	..DVD MAIN ASSY	XWM3343
NSP	1	..COMPLEX ASSY	XWM3372
	2	..DISPLAY ASSY	XWZ4256
	2	..USB ASSY	XWZ4259
	2	..KEY ASSY	XWZ4261
	2	..LED ASSY	XWZ4263
⚠	1	..POWER SUPPLY UNIT	XWR3014
	1	..FM/AM TUNER UNIT	AXX7250

A LOAB ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	S 101		VSK1011
	CN 602	CONNECTOR	S2B-PH-K
	CN 601	CONNECTOR	S5B-PH-K

B DVD MAIN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 101	(A,41,32) 6CH DRIVER IC	BD7995EFS
	IC 201	(A,77,112) DVD IC	MT1389FE/H-L
	IC 202	(A,110,99) IC	K4S641632K-UC75
	IC 203	(A,72,77) FLASH ROM	AYW7154
		FLASH MEMORY IC	S29AL016D70TFI010
	IC 204	(A,93,79) EEPROM	S-24CS64A0I
	IC 401	(A,103,145) DVD VIDEO AMP IC	MM1758XF
⚠	IC 771	(A,34,50) LOAD SWITCHING	AAT4618IGV-0.5-1
⚠	IC 781	(A,51,49) REGULATOR IC	NJM2845DL1-05
	IC 931	(A,102,195) HDMI IC	MT1392E/C-L
⚠	IC 981	(A,84,160) REGULATOR IC	NJM2872BF05
⚠	IC 1101	(A,20,110) REGULATOR IC	NJM2846DL3-18
	IC 3001	(A,41,151) IC	TC4052BFN
	IC 3003	(A,23,145) AD CONVERTER IC	AK5358AET
	IC 3004	(A,25,132) IC	TC7WU04FU
	IC 3005	(A,42,126) IC	TC74VHC157FTS1
	IC 5501	(A,83,44) SYSTEM CONTROL MICON	PDC153A
	IC 5502	(A,111,37) EEPROM	S-93C46BD0I-J8T1
	Q 304	(A,13,35) TRANSISTOR	2SC4154
	Q 305	(A,14,41) NMOS FET TRANSISTOR	UM5K1N
	Q 307	(A,11,61) CHIP TRANSISTOR	HN1A01F
	Q 308	(A,16,61) CHIP TRANSISTOR	HN1A01F
	Q 933	(A,114,212) TRANSISTOR	RT1N144M
	Q 934	(A,115,216) TRANSISTOR	RT3P22M
	Q 1201	(A,24,101) TRANSISTOR	RT1N141M-11
	Q 1202	(A,30,106) CHIP TRANSISTOR	RSR015P03
	Q 1301	(A,13,102) TRANSISTOR(SC-70)	2SA1602A
	Q 1302	(A,17,102) TRANSISTOR	2SA1577
	Q 1303	(A,13,96) TRANSISTOR	2SC4154
	Q 1304	(A,18,92) TRANSISTOR	2SC4154
	Q 1402	(A,110,25) TRANSISTOR(SC-70)	2SA1602A
	Q 1413	(A,106,21) TRANSISTOR	RT1N241M
	Q 3005	(A,42,140) CHIP TRANSISTOR	HN1A01FU
	Q 3006	(A,8,200) TRANSISTOR	RT1N241M
	Q 3951	(A,46,64) TRANSISTOR	RT1N241M
	Q 5525	(A,62,59) DIGITAL TR(SC-70)	RT1N431M
	Q 5703	(A,74,187) CHIP TRANSISTOR	HN1C01FU
	Q 5941	(A,21,192) TRANSISTOR	RT1N241M
	Q 5942	(A,27,195) TRANSISTOR(SC-70)	2SA1602A
	D 802	(A,61,24) DIODE	1SS352
	D 933	(A,112,204) DIODE	UDZS5R1(B)
	D 1201	(A,27,103) DIODE	1SS352
	D 1403	(A,110,30) DIODE	MC2846-11
	D 1415	(A,103,22) DIODE	UDZS4R7(B)
	D 5941	(A,21,195) DIODE	1SS352
	D 5942	(A,25,188) DIODE	1SS352
	L 421	(A,7,215) INDUCTOR	CTF1389
	L 422	(A,26,209) INDUCTOR	CTF1389
	L 761	(A,51,98) COIL	VTH1047
	L 772	(A,39,50) CHIP SOLID INDUCTOR	ATL7002
	L 931	(A,95,171) CHIP BEADS	ATL7010
	L 932	(A,97,216) COIL	ATH7022
	L 933	(A,100,216) COIL	ATH7022
	L 934	(A,102,216) COIL	ATH7022
	L 935	(A,105,216) COIL	ATH7022
	L 936	(A,93,171) CHIP BEADS	ATL7010

Mark	No.	Description	Part No.
L	937	(A,100,169) CHIP BEADS	ATL7010
L	1305	(A,16,105) INDUCTOR	CTF1395
L	1501	(A,58,42) AXIAL INDUCTOR	LAU220J
L	3951	(A,40,65) INDUCTOR	CTF1346
L	3952	(A,38,65) INDUCTOR	CTF1346
JA	401	(A,38,232) JACK	VKB1178
JA	402	(A,20,232) JACK	XKB3061
JA	931	HDMI CONNECTOR	AKP1318
X	201	(A,75,140) CRYSTAL RESONATOR (27 MHz)	VSS1168
X	3004	(A,24,123) CRYSTAL RESONATOR (12.288 MHz)	VSS1140
X	5501	(A,64,44) CERAMIC RESONATOR (10 MHz)	ASS7034
CN	101	(A,21,41) CONNECTOR	VKN2045
CN	102	(A,19,18) 12P CONNECTOR	VKN1243
CN	103	(A,20,57) 4P CONNECTOR	VKN1235
CN	104	(A,46,10) CONNECTOR POST	B5B-PH
CN	204	(A,99,83) CONNECTOR	B4B-PH
CN	1001	CONNECTOR	B13B-PH
CN	3001	(A,8,157) 19P RECEPTACLE	AKP7199
CN	3002	(A,8,193) 19P RECEPTACLE	AKP7199
CN	5501	(A,114,53) CONNECTOR	CKS3372
CN	5601	(A,26,56) CONNECTOR	CKS3380
CN	5602	(A,85,12) CONNECTOR	CKS3378
CN	5701	(A,86,179) CONNECTOR	CKS3376
	2	PCB BINDER	VEF1040

RESISTORS

R	131	(A,28,24)	RS1/10S4R7J
R	132	(A,28,26)	RS1/10S4R7J
R	133	(A,28,28)	RS1/10S4R7J
R	134	(A,28,30)	RS1/10S4R7J
R	135	(A,28,32)	RS1/10S4R7J
R	136	(A,28,34)	RS1/10S4R7J
R	151	(A,51,37)	RS1/10S1R0J
R	152	(A,51,41)	RS1/10S1R8J
R	153	(A,49,37)	RS1/10S1R0J
R	154	(A,49,41)	RS1/10S1R8J
R	201	(A,50,75)	RS1/16S152J
R	202	(A,53,75)	RS1/16S223J
R	204	(A,53,79)	RS1/16S223J
R	205	(A,56,79)	RS1/16S513J
R	206	(A,56,75)	RS1/16S513J
R	212	(A,56,101)	RS1/16S103J
R	213	(A,56,102)	RS1/16S103J
R	215	(A,80,86)	RS1/16S332J
R	216	(A,79,89)	RS1/16S472J
R	218	(A,86,81)	RS1/16S103J
R	219	(A,86,82)	RS1/16S103J
R	221	(A,76,89)	RS1/16S330J
R	223	(A,91,87)	RS1/16S330J
R	224	(A,73,89)	RS1/16S330J
R	225	(A,99,99) CHIP RESISTOR ARRAY	RAB4C330J
R	226	(A,99,102)	RS1/16S0R0J
R	227	(A,99,103)	RS1/16S330J
R	228	(A,99,105)	RS1/16S330J
R	229	(A,99,106)	RS1/16S330J
R	230	(A,86,134)	RS1/16S103J
R	233	(A,68,92)	RS1/16S0R0J
R	234	(A,79,86)	RS1/16S330J
R	235	(A,77,86)	RS1/16S472J
R	237	(A,77,89)	RS1/16S330J
R	240	(A,88,147)	RS1/16S0R0J
R	241	(A,83,134)	RS1/16S330J
R	242	(A,83,138)	RS1/16S330J
R	243	(A,81,134)	RS1/16S100J
R	244	(A,88,134)	RS1/16S330J
R	245	(A,87,137)	RS1/16S330J
R	246	(A,86,138)	RS1/16S330J
R	247	(A,88,156)	RS1/16S0R0J
R	248	(A,81,138)	RS1/16S330J
R	251	(A,70,134)	RS1/16S104J
R	252	(A,72,130)	RS1/16S0R0J
R	253	(A,73,134)	RS1/16S681J
R	254	(A,67,133)	RS1/16S754J
R	255	(A,61,134)	RS1/16S104J
R	256	(A,57,131)	RS1/16S153J
R	257	(A,74,130)	RS1/16S0R0J
R	258	(A,80,89)	RS1/16S330J
R	259	(A,82,87)	RS1/16S330J
R	260	(A,83,87)	RS1/16S330J
R	261	(A,95,87)	RS1/16S330J
R	262	(A,85,86)	RS1/16S330J
R	263	(A,86,86)	RS1/16S330J
R	264	(A,110,122) CHIP RESISTOR ARRAY	RAB4C330J
R	265	(A,104,118) CHIP RESISTOR ARRAY	RAB4C330J
R	266	(A,99,115)	RS1/16S0R0J
R	267	(A,110,115) CHIP RESISTOR ARRAY	RAB4C330J
R	269	(A,82,142)	RS1/16S0R0J
R	271	(A,104,113) CHIP RESISTOR ARRAY	RAB4C330J
R	272	(A,96,87)	RS1/16S333J
R	279	(A,89,134) CHIP RESISTOR	RS1/16S2201F
R	281	(A,107,84)	RS1/10S0R0J
R	284	(A,60,80)	RS1/16S103J
R	291	(A,72,86)	RS1/16S332J
R	292	(A,73,85)	RS1/16S682J
R	293	(A,93,84)	RS1/16S332J
R	294	(A,90,84)	RS1/16S682J
R	313	(A,16,39)	RS1/16S104J
R	314	(A,15,37)	RS1/16S103J
R	315	(A,12,37)	RS1/16S103J
R	318	(A,12,39)	RS1/16S104J
R	321	(A,19,61)	RS1/16S4R7J
R	322	(A,14,61)	RS1/16S4R7J
R	325	(A,10,57)	RS1/16S4R7J
R	326	(A,15,57)	RS1/16S4R7J
R	402	(A,45,200)	RS1/16S103J
R	406	(A,109,137)	RS1/16S103J
R	411	(A,96,131)	RS1/16S1500F
R	412	(A,100,131)	RS1/16S1500F
R	413	(A,93,130)	RS1/16S1500F
R	414	(A,103,131)	RS1/16S1500F
R	415	(A,107,130)	RS1/16S1500F
R	416	(A,110,130)	RS1/16S1500F
R	421	(A,39,211)	RS1/10S75R0F
R	422	(A,43,211)	RS1/10S75R0F
R	423	(A,33,211)	RS1/10S75R0F
R	424	(A,19,209)	RS1/10S75R0F
R	425	(A,10,215)	RS1/10S75R0F

Mark	No.	Description	Part No.
R	426	(A,29,210)	RS1/10S75R0F
R	767	(A,51,104)	RS1/16S153J
R	768	(A,52,101)	RS1/16S153J
R	769	(A,51,103)	RS1/16S330J
R	770	(A,52,100)	RS1/16S330J
R	771	(A,37,50)	RS1/16S221J
R	772	(A,31,48)	RS1/16S104J
R	801	(A,61,28)	RS1/16S472J
R	906	(A,91,194)	RS1/16S100J
R	911	(A,91,191)	RS1/16S100J
R	914	(A,114,184)	RS1/16S103J
R	915	(A,116,191)	RS1/16S102J
R	931	(A,102,184)	RS1/16S0R0J
R	933	(A,92,199)	RS1/16S561J
R	934	(A,92,203) CHIP RESISTOR	RS1/16S5100F
R	959	(A,117,214)	RS1/16S472J
R	960	(A,117,217)	RS1/16S272J
R	961	(A,113,219)	RS1/16S472J
R	962	(A,115,219)	RS1/16S272J
R	966	(A,110,206)	RS1/16S473J
R	970	(A,112,209)	RS1/16S102J
R	973	(A,109,209)	RS1/16S0R0J
R	1101	(A,24,105)	RS1/16S221J
R	1201	(A,31,102)	RS1/16S103J
R	1202	(A,29,103)	RS1/16S474J
R	1301	(A,13,100)	RS1/16S473J
R	1302	(A,13,98)	RS1/16S392J
R	1303	(A,17,99)	RS1/16S473J
R	1304	(A,16,92)	RS1/10S561J
R	1306	(A,21,95)	RS1/16S103J
R	1307	(A,13,92)	RS1/16S472J
R	1401	(A,114,27)	RS1/16S392J
R	1402	(A,114,30)	RS1/16S332J
R	1403	(A,112,27)	RS1/16S473J
R	1404	(A,112,30)	RS1/16S393J
R	1415	(A,100,22)	RS1/16S182J
R	3006	(A,8,198)	RS1/16S103J
R	3009	(A,49,153)	RS1/16S102J
R	3010	(A,34,153)	RS1/16S102J
R	3011	(A,47,159)	RS1/16S223J
R	3012	(A,34,155)	RS1/16S223J
R	3013	(A,49,156)	RS1/16S223J
R	3014	(A,34,156)	RS1/16S223J
R	3017	(A,48,150)	RS1/16S223J
R	3018	(A,34,150)	RS1/16S223J
R	3019	(A,48,152)	RS1/16S473J
R	3020	(A,37,157)	RS1/16S473J
R	3021	(A,45,140)	RS1/16S224J
R	3022	(A,37,143)	RS1/16S224J
R	3023	(A,37,138)	RS1/16S102J
R	3024	(A,39,143)	RS1/16S102J
R	3025	(A,45,136)	RS1/16S102J
R	3026	(A,44,136)	RS1/16S102J
R	3027	(A,49,155)	RS1/16S473J
R	3039	(A,36,138)	RS1/16S153J
R	3040	(A,42,144)	RS1/16S153J
R	3048	(A,17,137)	RS1/16S182J
R	3049	(A,22,139)	RAB4C101J
R	3052	(A,22,134)	RS1/16S0R0J
R	3053	(A,31,131)	RS1/16S101J
R	3054	(A,31,128)	RS1/16S101J
R	3055	(A,27,129)	RS1/16S105J
R	3056	(A,23,129)	RS1/16S101J
R	3057	(A,27,150)	RS1/16S0R0J
R	3060	(A,29,143)	RS1/16S0R0J
R	3061	(A,37,130)	RS1/16S221J
R	3062	(A,35,127)	RS1/16S221J
R	3063	(A,35,125)	RS1/16S221J
R	3065	(A,48,127)	RS1/16S221J
R	3066	(A,35,121)	RS1/16S101J
R	3073	(A,18,139)	RS1/16S332J
R	3081	(A,10,164)	RS1/16S105J
R	3082	(A,10,163)	RS1/16S105J
R	3915	(A,70,200)	RS1/16S473J
R	3951	(A,43,65)	RS1/16S473J
R	3952	(A,35,65)	RS1/16S473J
R	3955	(A,50,63)	RS1/16S182J
R	5501	(A,67,58)	RAB4C221J
R	5505	(A,67,55)	RS1/16S221J
R	5507	(A,67,53)	RS1/16S221J
R	5508	(A,62,55)	RS1/16S222J
R	5509	(A,67,61)	RS1/16S0R0J
R	5510	(A,62,53)	RS1/16S473J
R	5513	(A,57,25)	RD1/4PU393J
R	5514	(A,57,22)	RD1/4PU683J
R	5515	(A,52,27)	RD1/4PU333J
R	5516	(A,52,20)	RD1/4PU153J
R	5517	(A,66,35)	RAB4C221J
R	5518	(A,62,35)	RS1/16S105J
R	5519	(A,62,32)	RS1/16S103J
R	5521	(A,66,33)	RS1/16S221J
R	5527	(A,67,25)	RAB4C221J
R	5531	(A,71,25)	RS1/16S0R0J
R	5536	(A,79,25)	RS1/16S221J
R	5541	(A,87,25)	RAB4C221J
R	5543	(A,94,10)	RS1/16S0R0J
R	5544	(A,81,22)	RS1/16S0R0J
R	5546	(A,84,22)	RS1/16S103J
R	5547	(A,84,21)	RS1/16S103J
R	5548	(A,100,29)	RAB4C221J
R	5557	(A,100,36)	RAB4C221J
R	5558	(A,106,40)	RS1/16S473J
R	5559	(A,112,41)	RS1/16S473J
R	5562	(A,100,39)	RS1/16S221J
R	5563	(A,104,46)	RS1/16S103J
R	5566	(A,100,45)	RAB4C221J
R	5569	(A,66,39)	RS1/16S221J
R	5570	(A,100,51)	RAB4C221J
R	5574	(A,95,64)	RS1/16S104J
R	5577	(A,100,60)	RAB4C221J
R	5581	(A,98,64)	RS1/16S221J
R	5582	(A,96,64)	RS1/16S221J
R	5583	(A,92,64)	RS1/16S103J
R	5584	(A,90,64)	RS1/16S221J
R	5590	(A,80,63)	RAB4C221J
R	5597	(A,82,63)	RS1/16S153J
R	5712	(A,78,184)	RS1/16S0R0J
R	5713	(A,78,190)	RS1/16S0R0J
R	5943	(A,73,212)	RS1/16S0R0J
R	5944	(A,30,195)	RS1/16S104J

Mark	No.		Description	Part No.
R	5945	(A,29,192)		RS1/16S392J
R	5946	(A,24,195)		RS1/16S472J
R	5947	(A,27,188)		RS1/16S102J
R	5949	(A,25,192)		RS1/16S103J
R	9402	(A,16,198)		RS1/16S0R0J

CAPACITORS

C	101	(A,40,18)		CEAT101M10
C	102	(A,40,22)		CKSRYB105K10
C	103	(A,48,29)		CKSRYB105K10
C	104	(A,49,34)		CKSRYB105K10
C	121	(A,48,32)		CKSRYB105K6R3
C	131	(A,33,41)		CKSRYB104K16
C	140	(A,16,15)		CKSRYB105K6R3
C	144	(A,32,32)		CKSRYB222K50
C	145	(A,34,31)		CKSRYB222K50
C	146	(A,34,34)		CKSRYB222K50
C	151	(A,49,26)		CKSRYB103K50
C	152	(A,49,23)		CKSRYB103K50
C	153	(A,46,21)		CKSRYB103K50
C	161	(A,32,38)		CKSRYB102K50
C	200	(A,58,111)		CKSRYB104K16
C	201	(A,59,93)		CEAT221M6R3
C	202	(A,45,112)		CEAT221M6R3
C	203	(A,46,100)	ELECT. CAPACITOR	CEAT470M35
C	204	(A,54,113)		CKSRYB104K16
C	205	(A,54,111)		CKSRYB104K16
C	206	(A,52,108)	ELECT. CAPACITOR	CEAT470M35
C	207	(A,55,116)		CKSRYB104K16
C	208	(A,55,75)		CKSRYB222K50
C	209	(A,52,75)		CKSRYB104K16
C	210	(A,52,79)		CKSRYB222K50
C	211	(A,55,79)		CCSRCH101J50
C	212	(A,58,75)		CCSRCH101J50
C	213	(A,54,115)		CKSRYB104K16
C	215	(A,46,106)	ELECT. CAPACITOR	CEAT470M35
C	216	(A,58,105)		CKSRYB104K16
C	217	(A,59,100)		CKSRYB104K16
C	218	(A,58,108)		CKSRYB104K16
C	219	(A,58,109)		CKSRYB562K50
C	220	(A,63,94)		CKSRYB104K16
C	223	(A,63,146)		CEAT100M50
C	224	(A,75,93)		CKSRYB104K16
C	225	(A,76,93)		CKSRYB104K16
C	226	(A,88,87)		CKSRYB103K50
C	227	(A,96,89)		CCSRCH221J50
C	228	(A,78,134)		CKSRYB104K16
C	229	(A,89,92)		CKSRYB104K16
C	230	(A,94,99)		CKSRYB104K16
C	231	(A,95,104)		CKSRYB104K16
C	232	(A,95,106)		CKSRYB104K16
C	233	(A,96,111)		CKSRYB104K16
C	234	(A,95,113)		CKSRYB104K16
C	235	(A,95,116)		CKSRYB104K16
C	236	(A,95,118)		CKSRYB104K16
C	237	(A,103,126)		CEAT221M6R3
C	238	(A,75,130)		CKSRYB104K16
C	239	(A,81,131)		CKSRYB104K16
C	241	(A,69,147)		CEAT100M50
C	242	(A,75,147)		CEAT100M50
C	243	(A,94,127)		CKSRYB104K16
C	244	(A,95,123)		CKSRYB104K16
C	245	(A,88,131)		CKSRYB105K6R3
C	246	(A,87,130)		CKSRYB104K16
C	247	(A,84,131)		CKSRYB104K16
C	248	(A,84,134)		CKSRYB104K16
C	250	(A,102,122)		CKSRYB104K16
C	251	(A,70,135)		CCSRCH9R0D50
C	252	(A,74,135)		CCSRCH120J50
C	254	(A,67,135)		CKSRYB102K50
C	255	(A,60,137)		CKSRYB474K10
C	256	(A,64,140)		CEAT100M50
C	258	(A,64,135)		CKSRYB473K25
C	259	(A,64,133)		CKSRYB473K25
C	260	(A,70,131)		CKSRYB104K16
C	261	(A,76,131)		CKSRYB104K16
C	262	(A,81,148)		CEAT100M50
C	264	(A,66,131)		CKSRYB104K16
C	265	(A,57,135)		CCSRCH220J50
C	266	(A,68,131)		CKSRYB104K16
C	267	(A,58,135)		CKSRYB102K50
C	268	(A,62,131)		CKSRYB104K16
C	269	(A,60,131)		CKSRYB333K16
C	271	(A,64,130)		CKSRYB104K16
C	272	(A,59,131)		CKSRYB104K16
C	273	(A,64,131)		CKSRYB104K16
C	281	(A,113,85)		CEAT221M6R3
C	282	(A,109,84)		CKSRYB105K6R3
C	283	(A,117,109)		CKSRYB104K16
C	284	(A,102,98)		CKSRYB104K16
C	285	(A,101,93)		CKSRYB104K16
C	286	(A,117,90)		CKSRYB104K16
C	287	(A,117,94)		CKSRYB104K16
C	288	(A,117,99)		CKSRYB104K16
C	289	(A,86,77)		CKSRYB105K6R3
C	290	(A,93,75)		CKSRYB104K16
C	296	(A,84,77)		CKSRYB102K50
C	309	(A,17,66)	ELECT. CAPACITOR	CEAT470M35
C	310	(A,23,66)	ELECT. CAPACITOR	CEAT470M35
C	343	(A,58,124)		CKSRYB105K6R3
C	344	(A,48,117)		CKSRYB105K6R3
C	345	(A,48,118)		CKSRYB105K6R3
C	346	(A,55,122)		CKSRYB105K6R3
C	347	(A,55,120)		CKSRYB105K6R3
C	371	(A,15,44)		CKSRYB104K16
C	372	(A,26,46)		CKSRYB104K16
C	374	(A,10,49)	ELECTR.CAPACITOR	CEAT101M6R3
C	401	(A,92,151)		CEAT101M16
C	402	(A,91,147)		CKSRYB104K16
C	404	(A,92,144)		CEAT101M16
C	405	(A,103,138)		CKSRYB104K16
C	406	(A,45,202)		CKSRYB104K16
C	411	(A,97,137)		CKSRYB104K16
C	412	(A,101,136)		CKSRYB105K6R3
C	413	(A,95,137)		CKSRYB105K6R3
C	414	(A,104,136)		CKSRYB105K6R3
C	415	(A,107,135)		CKSRYB104K16
C	416	(A,111,135)		CKSRYB104K16
C	427	(A,41,186)	ELECT. CAPACITOR	CEAT102M6R3
C	428	(A,41,177)	ELECT. CAPACITOR	CEAT102M6R3

Mark	No.	Description	Part No.
C	429	(A,18,203) ELECT. CAPACITOR	CEAT102M6R3
C	430	(A,10,210)	CEAT471M6R3
C	431	(A,25,204)	CEAT471M6R3
C	771	(A,36,53)	CKSQYB105K16
C	773	(A,31,51)	CKSRYB104K16
C	781	(A,42,45)	CEAT100M50
C	782	(A,48,58)	CKSQYB225K10
C	931	(A,96,186)	CKSRYB104K16
C	932	(A,97,180) ELECT. CAPACITOR	CEAT470M35
C	933	(A,94,185)	CKSRYB104K16
C	934	(A,94,187)	CKSRYB102K50
C	935	(A,96,166)	CKSRYB104K16
C	936	(A,113,189)	CKSRYB104K16
C	942	(A,102,185)	CKSRYB104K16
C	943	(A,108,185)	CKSRYB104K16
C	944	(A,92,201)	CKSRYB104K16
C	945	(A,110,202)	CKSRYB562K50
C	946	(A,108,204)	CKSRYB104K16
C	951	(A,109,210)	CKSRYB104K16
C	952	(A,109,218)	CEAT100M50
C	953	(A,91,180) ELECT. CAPACITOR	CEAT470M35
C	954	(A,91,185)	CKSRYB104K16
C	955	(A,94,166)	CKSRYB104K16
C	956	(A,91,187)	CKSRYB102K50
C	982	(A,84,164)	CKSQYB225K10
C	983	(A,80,161)	CKSQYB105K16
C	984	(A,84,157)	CKSRYB104K16
C	985	(A,100,165)	CKSRYB104K16
C	987	(A,100,172)	CKSRYB102K50
C	1101	(A,27,108)	CKSRYB105K6R3
C	1103	(A,31,115) ELECT. CAPACITOR	CEAT470M35
C	1201	(A,24,103)	CKSRYB105K6R3
C	1204	(A,31,103)	CKSRYB563K16
C	1301	(A,18,95)	CKSRYB105K6R3
C	1501	(A,61,48)	CKSRYB103K50
C	1502	(A,61,43)	CKSRYB104K16
C	1505	(A,58,51)	CEAT101M10
C	3001	(A,44,157)	CKSRYB103K50
C	3011	(A,20,182)	CEAT100M50
C	3012	(A,20,188)	CEAT100M50
C	3019	(A,63,165)	CEAT100M50
C	3020	(A,62,172)	CEAT100M50
C	3021	(A,29,138)	CKSRYB104K16
C	3022	(A,42,143)	CKSRYB104K16
C	3023	(A,31,135) ELECT. CAPACITOR	CEAT470M35
C	3024	(A,40,136)	CEAT221M6R3
C	3025	(A,33,141)	CEAT100M50
C	3026	(A,33,147)	CEAT100M50
C	3041	(A,19,161)	CEAT100M50
C	3042	(A,22,151)	CKSRYB104K16
C	3043	(A,27,158)	CEAT2R2M50
C	3044	(A,24,151)	CKSRYB104K16
C	3045	(A,20,155)	CEAT100M50
C	3046	(A,20,151)	CKSRYB104K16
C	3048	(A,17,139)	CKSRYB103K50
C	3052	(A,25,134)	CKSRYB104K16
C	3056	(A,23,127)	CCSRCH270J50
C	3057	(A,27,127)	CCSRCH270J50
C	3064	(A,43,130)	CKSRYB104K16
C	3951	(A,41,73)	CEAT101M16
C	3952	(A,35,73)	CEAT101M16
C	5502	(A,56,36)	CEAT101M10
C	5504	(A,62,56)	CKSRYB103K50
C	5508	(A,62,54)	CKSRYB103K50
C	5509	(A,68,50)	CKSRYB104K16
C	5517	(A,68,41)	CKSRYB103K50
C	5518	(A,66,38)	CKSRYB104K16
C	5519	(A,62,33)	CKSRYB103K50
C	5521	(A,63,28)	CKSRYB104K16
C	5522	(A,64,33)	CKSRYB103K50
C	5524	(A,58,62)	CEAT100M50
C	5539	(A,84,25)	CKSRYB104K16
C	5555	(A,99,32)	CKSRYB104K16
C	5557	(A,116,38)	CKSRYB104K16
C	5558	(A,106,36)	CCSRCH470J50
C	5569	(A,100,48)	CKSRYB103K50
C	5577	(A,100,57)	CKSRYB103K50
C	5578	(A,101,62)	CKSRYB103K50
C	5579	(A,93,64)	CKSRYB102K50
C	5589	(A,84,63)	CKSRYB104K16
C	5601	(A,72,6)	CKSRYB102K50
C	5602	(A,77,6)	CKSRYB102K50
C	5603	(A,81,6)	CKSRYB102K50
C	5701	(A,79,172)	CCSRCH101J50
C	5703	(A,78,176)	CCSRCH101J50
C	5707	(A,75,185)	CKSRYB102K50
C	5708	(A,72,182) ELECT. CAPACITOR	CEAT470M35

C DAMP ASSY

MISCELLANEOUS

IC	3101	(A,22,84) 8CH PWM PROCESSOR IC	TAS5508BPAG
IC	3191	(A,99,139) OP-AMP IC	BA10358F
⚠ IC	3201	(A,46,54) DIGITAL AMP IC	TAS5122DCA
⚠ IC	3301	(A,46,84) DIGITAL AMP IC	TAS5122DCA
⚠ IC	3401	(A,46,114) DIGITAL AMP IC	TAS5122DCA
IC	3601	(A,97,15) DUAL OP-AMP	NJM4565MD
IC	3901	(A,11,27) DUAL OP-AMP	NJM4565MD
Q	3131	(A,37,140) TRANSISTOR	2SA1036K
Q	3132	(A,36,132) DIGITAL TR(SC-70)	RT1N431M
Q	3601	(A,97,25) TRANSISTOR	IMX9
Q	3602	(A,81,21) DIGITAL TR(SC-70)	RT1P241M
Q	3603	(A,95,32) TRANSISTOR	IMX9
Q	3604	(A,29,52) DIGITAL TR(SC-70)	RT1P241M
D	3101	(A,28,57) DIODE	MC2846-11
D	3131	(A,41,137) DIODE	UDZS18(B)
D	3191	(A,21,124) DIODE	UDZS4R7(B)
D	3603	(A,83,8) DIODE	UDZS12(B)
L	3201	(A,70,37) INDUCTORS	ATH7019
L	3202	(A,70,54) INDUCTORS	ATH7019
L	3301	(A,70,70) INDUCTORS	ATH7019
L	3302	(A,70,87) INDUCTORS	ATH7019
L	3401	(A,70,103) INDUCTORS	ATH7019
L	3402	(A,70,120) INDUCTORS	ATH7019
JA	5981	(A,113,65) JACK REMOCON JACK	RKN1004
X	3101	(A,18,67) CRYSTAL RESONATOR (13.5 MHz)	ASS7062
CN	3101	(A,41,8) 19P PLUG	AKM7077
CN	3102	(A,77,8) 19P PLUG	AKM7077
CN	3111	(A,116,42) PIN JACK(4P)	AKB7114

Mark	No.	Description	Part No.
	CN 3201 (A,84,140)	2P CONNECTOR	B2P-VH
	CN 3211 (A,116,96)	6CH SPEAKER JACK(V0)	AKE7121
	4	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 3101 (A,14,95)		RS1/16S221J
	R 3102 (A,14,92)		RS1/16S221J
	R 3103 (A,12,58)		RS1/16S4R7J
	R 3104 (A,13,78)		RAB4C221J
	R 3106 (A,19,73)		RS1/16S105J
	R 3107 (A,22,72)		RAB4C470J
	R 3108 (A,26,72)		RAB4C470J
	R 3111 (A,28,94)		RS1/16S220J
	R 3112 (A,18,97)		RS1/16S470J
	R 3113 (A,15,96)		RS1/16S3R3J
	R 3114 (A,28,54)		RS1/16S103J
	R 3131 (A,41,140)		RS1/16S473J
	R 3132 (A,39,136)		RS1/10S123J
	R 3133 (A,39,133)		RS1/16S102J
	R 3134 (A,41,133)		RS1/16S222J
	R 3141 (A,100,36)		RS1/16S331J
	R 3142 (A,101,30)		RS1/16S331J
	R 3151 (A,28,17)		RAB4C103J
	R 3152 (A,36,17)		RAB4C222J
	R 3182 (A,16,57)		RS1/16S0R0J
	R 3191 (A,108,137)	RESISTOR (0.10HM,2W)	ACN7112
	R 3192 (A,101,135)		RS1/16S103J
	R 3193 (A,92,140)		RS1/16S103J
	R 3194 (A,97,133)		RS1/16S104J
	R 3195 (A,92,141)		RS1/16S104J
	R 3196 (A,93,133)		RS1/16S222J
	R 3197 (A,90,132)		RS1/16S103J
⚠	R 3199 (A,94,135)		RS1/16S8R2J
	R 3204 (A,33,51)		RS1/16S221J
	R 3205 (A,34,56)		RS1/16S103J
	R 3206 (A,36,60)		RS1/16S101J
	R 3207 (A,35,60)		RS1/16S473J
	R 3208 (A,38,60)		RS1/16S472J
⚠	R 3211 (A,60,46)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3212 (A,60,60)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3213 (A,60,48)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3214 (A,60,62)	RESISTOR (2.7 OHM)	ACN7148
	R 3215 (A,64,43)	CHIP RESISTOR	RS1/8S1R5J
	R 3216 (A,64,57)	CHIP RESISTOR	RS1/8S1R5J
	R 3217 (A,64,52)	CHIP RESISTOR	RS1/8S1R5J
	R 3218 (A,64,66)	CHIP RESISTOR	RS1/8S1R5J
	R 3223 (A,39,43)		RS1/10S821J
	R 3224 (A,39,66)		RS1/10S821J
	R 3225 (A,39,41)		RS1/10S821J
	R 3226 (A,39,68)		RS1/10S821J
⚠	R 3227 (A,86,35)		RS1/10S3R3J
⚠	R 3228 (A,86,51)		RS1/10S3R3J
	R 3231 (A,100,71)		RS1/10S472J
	R 3232 (A,103,71)		RS1/10S472J
	R 3233 (A,96,70)		RS1/10S472J
	R 3234 (A,111,71)		RS1/10S472J
⚠	R 3235 (A,99,69)		RS1/16S1R0J
⚠	R 3236 (A,99,64)		RS1/16S1R0J
⚠	R 3237 (A,96,69)		RS1/16S1R0J
⚠	R 3238 (A,108,70)		RS1/16S1R0J
⚠	R 3241 (A,58,45)		RS1/10S180J
⚠	R 3242 (A,58,59)		RS1/10S180J
⚠	R 3243 (A,58,49)		RS1/10S180J
⚠	R 3244 (A,58,63)		RS1/10S180J
	R 3304 (A,33,80)		RS1/16S221J
	R 3305 (A,34,86)		RS1/16S103J
	R 3306 (A,36,90)		RS1/16S101J
	R 3307 (A,35,90)		RS1/16S473J
	R 3308 (A,38,90)		RS1/16S472J
⚠	R 3311 (A,60,76)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3312 (A,60,90)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3313 (A,60,78)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3314 (A,60,92)	RESISTOR (2.7 OHM)	ACN7148
	R 3315 (A,64,73)	CHIP RESISTOR	RS1/8S1R5J
	R 3316 (A,64,87)	CHIP RESISTOR	RS1/8S1R5J
	R 3317 (A,64,82)	CHIP RESISTOR	RS1/8S1R5J
	R 3318 (A,64,96)	CHIP RESISTOR	RS1/8S1R5J
	R 3323 (A,39,73)		RS1/10S821J
	R 3324 (A,39,96)		RS1/10S821J
	R 3325 (A,39,71)		RS1/10S821J
	R 3326 (A,39,98)		RS1/10S821J
⚠	R 3327 (A,86,68)		RS1/10S3R3J
⚠	R 3328 (A,86,84)		RS1/10S3R3J
	R 3331 (A,94,98)		RS1/10S472J
	R 3332 (A,94,84)		RS1/10S472J
	R 3333 (A,94,94)		RS1/10S472J
	R 3334 (A,94,108)		RS1/10S472J
⚠	R 3335 (A,94,101)		RS1/16S1R0J
⚠	R 3336 (A,94,81)		RS1/16S1R0J
⚠	R 3337 (A,94,91)		RS1/16S1R0J
⚠	R 3338 (A,94,111)		RS1/16S1R0J
⚠	R 3341 (A,58,75)		RS1/10S180J
⚠	R 3342 (A,58,89)		RS1/10S180J
⚠	R 3343 (A,58,79)		RS1/10S180J
⚠	R 3344 (A,58,93)		RS1/10S180J
	R 3404 (A,33,110)		RS1/16S221J
	R 3405 (A,34,116)		RS1/16S103J
	R 3406 (A,36,120)		RS1/16S101J
	R 3407 (A,35,120)		RS1/16S473J
	R 3408 (A,38,120)		RS1/16S472J
⚠	R 3411 (A,60,106)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3412 (A,60,120)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3413 (A,60,108)	RESISTOR (2.7 OHM)	ACN7148
⚠	R 3414 (A,60,122)	RESISTOR (2.7 OHM)	ACN7148
	R 3415 (A,64,103)	CHIP RESISTOR	RS1/8S1R5J
	R 3416 (A,64,117)	CHIP RESISTOR	RS1/8S1R5J
	R 3417 (A,64,112)	CHIP RESISTOR	RS1/8S1R5J
	R 3418 (A,64,126)	CHIP RESISTOR	RS1/8S1R5J
	R 3423 (A,39,103)		RS1/10S821J
	R 3424 (A,39,126)		RS1/10S821J
	R 3425 (A,39,101)		RS1/10S821J
	R 3426 (A,39,128)		RS1/10S821J
⚠	R 3427 (A,86,101)		RS1/10S3R3J
⚠	R 3428 (A,86,117)		RS1/10S3R3J
	R 3431 (A,100,122)		RS1/10S472J
	R 3432 (A,107,122)		RS1/10S472J
	R 3433 (A,104,122)		RS1/10S472J
	R 3434 (A,110,122)		RS1/10S472J
⚠	R 3435 (A,101,124)		RS1/16S1R0J
⚠	R 3436 (A,107,124)		RS1/16S1R0J

Mark	No.	Description	Part No.
⚠ R	3437	(A,104,124)	RS1/16S1R0J
⚠ R	3438	(A,110,124)	RS1/16S1R0J
⚠ R	3441	(A,58,105)	RS1/10S180J
⚠ R	3442	(A,58,119)	RS1/10S180J
⚠ R	3443	(A,58,109)	RS1/10S180J
⚠ R	3444	(A,58,123)	RS1/10S180J
R	3601	(A,87,9)	RAB4C472J
R	3605	(A,87,17)	RS1/16S472J
R	3606	(A,107,17)	RS1/16S472J
R	3607	(A,90,13)	RS1/16S472J
R	3608	(A,104,13)	RS1/16S472J
R	3609	(A,91,18)	RS1/16S103J
R	3610	(A,103,18)	RS1/16S103J
R	3611	(A,90,14)	RS1/16S103J
R	3612	(A,104,14)	RS1/16S103J
R	3613	(A,92,21)	RS1/16S473J
R	3614	(A,102,21)	RS1/16S473J
R	3615	(A,92,22)	RS1/16S102J
R	3616	(A,102,22)	RS1/16S102J
R	3617	(A,95,22)	RS1/16S472J
R	3618	(A,99,22)	RS1/16S472J
R	3619	(A,94,35)	RS1/16S221J
R	3620	(A,97,35)	RS1/16S221J
⚠ R	3621	(A,92,6)	RS1/16S8R2J
R	3623	(A,92,8)	RS1/16S222J
R	3629	(A,92,24)	RS1/16S821J
R	3630	(A,102,24)	RS1/16S821J
R	3631	(A,94,29)	RS1/16S472J
R	3632	(A,97,29)	RS1/16S472J
R	3901	(A,11,39)	RAB4C472J
R	3905	(A,17,35)	RS1/16S562J
R	3906	(A,6,35)	RS1/16S562J
R	3907	(A,15,35)	RS1/16S562J
R	3908	(A,7,35)	RS1/16S562J
R	3909	(A,16,32)	RS1/16S183J
R	3910	(A,6,32)	RS1/16S183J
R	3911	(A,13,32)	RS1/16S183J
R	3912	(A,9,32)	RS1/16S183J
R	3913	(A,11,43)	RS1/16S472J
R	3914	(A,7,42)	RS1/16S472J
R	3915	(A,12,41)	RS1/16S472J
R	3916	(A,8,43)	RS1/16S472J
⚠ R	3921	(A,12,24)	RS1/16S8R2J
R	3923	(A,12,22)	RS1/16S103J
R	3924	(A,15,22)	RS1/16S103J
R	5982		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3101	(A,16,92)	CKSRYB224K16
C	3102	(A,14,93)	CKSRYB103K50
C	3103	(A,11,94)	CKSRYB104K16
C	3104	(A,11,91)	CKSRYB104K16
C	3105	(A,14,90)	CKSRYB103K50
C	3106	(A,12,87)	CKSRYB104K16
C	3107	(A,12,86)	CKSRYB104K16
C	3108	(A,12,72)	CEVW100M10
C	3109	(A,12,84)	CKSRYB102K50
C	3110	(A,16,77)	CKSRYB104K16
C	3111	(A,12,64)	CEVW100M10
C	3112	(A,17,76)	CKSRYB104K16
C	3113	(A,17,74)	CCSRCH180J50
C	3114	(A,17,73)	CCSRCH150J50
C	3115	(A,28,76)	CKSRYB474K10
C	3116	(A,28,75)	CKSRYB104K16
C	3117	(A,26,66)	CEVW100M10
C	3118	(A,30,90)	CKSRYB104K16
C	3119	(A,25,94)	CKSRYB104K16
C	3120	(A,26,97)	CEVW100M10
C	3141	(A,101,36)	CCSRCH221J50
C	3142	(A,101,33)	CCSRCH221J50
C	3151	(A,18,20)	CKSRYB104K16
C	3192	(A,98,135)	CKSRYB104K25
C	3201	(A,40,45)	CKSQYB105K16
C	3202	(A,40,63)	CKSQYB105K16
C	3203	(A,35,54)	CKSRYB104K16
C	3204	(A,39,60)	CKSRYB104K16
C	3211	(A,59,42)	CKSQYB104K50
C	3212	(A,59,56)	CKSQYB104K50
C	3213	(A,59,52)	CKSQYB104K50
C	3214	(A,59,66)	CKSQYB104K50
C	3215	(A,65,46)	CKSRYB333K50
C	3216	(A,65,60)	CKSRYB333K50
C	3217	(A,65,48)	CKSRYB333K50
C	3218	(A,65,62)	CKSRYB333K50
C	3221	(A,91,43) ELECT. CAPACITOR	CEAT102M25
C	3223	(A,86,37)	CKSRYB103K50
C	3224	(A,86,54)	CKSRYB103K50
C	3225	(A,86,48)	CKSRYB102K50
C	3226	(A,86,65)	CKSRYB102K50
C	3227	(A,49,45)	CKSRYB104K25
C	3228	(A,49,64)	CKSRYB104K25
C	3231	(A,85,45)	CFTLA474J50
C	3232	(A,85,62)	CFTLA474J50
C	3233	(A,102,83)	CKSRYB104K25
C	3234	(A,108,81)	CKSRYB104K25
C	3235	(A,102,81)	CKSRYB104K25
C	3236	(A,108,78)	CKSRYB104K25
C	3237	(A,99,66)	CKSRYB103K50
C	3238	(A,99,63)	CKSRYB103K50
C	3239	(A,96,66)	CKSRYB103K50
C	3240	(A,106,70)	CKSRYB103K50
C	3241	(A,56,44)	CKSRYB331K50
C	3242	(A,56,58)	CKSRYB331K50
C	3243	(A,56,50)	CKSRYB331K50
C	3244	(A,56,64)	CKSRYB331K50
C	3301	(A,40,75)	CKSQYB105K16
C	3302	(A,40,93)	CKSQYB105K16
C	3303	(A,35,84)	CKSRYB104K16
C	3304	(A,39,90)	CKSRYB104K16
C	3311	(A,59,72)	CKSQYB104K50
C	3312	(A,59,86)	CKSQYB104K50
C	3313	(A,59,82)	CKSQYB104K50
C	3314	(A,59,96)	CKSQYB104K50
C	3315	(A,65,76)	CKSRYB333K50
C	3316	(A,65,90)	CKSRYB333K50
C	3317	(A,65,78)	CKSRYB333K50
C	3318	(A,65,92)	CKSRYB333K50
C	3321	(A,91,59) ELECT. CAPACITOR	CEAT102M25
C	3323	(A,86,70)	CKSRYB103K50

Mark	No.	Description	Part No.
C	3324 (A,86,87)		CKSRYB103K50
C	3325 (A,86,81)		CKSRYB102K50
C	3326 (A,86,98)		CKSRYB102K50
C	3327 (A,49,75)		CKSRYB104K25
C	3328 (A,49,94)		CKSRYB104K25
C	3331 (A,85,78)		CFTLA474J50
C	3332 (A,85,95)		CFTLA474J50
C	3333 (A,102,99)		CKSRYB104K25
C	3334 (A,107,92)		CKSRYB104K25
C	3335 (A,102,96)		CKSRYB104K25
C	3336 (A,107,95)		CKSRYB104K25
C	3337 (A,94,104)		CKSRYB103K50
C	3338 (A,94,78)		CKSRYB103K50
C	3339 (A,94,88)		CKSRYB103K50
C	3340 (A,94,114)		CKSRYB103K50
C	3341 (A,56,74)		CKSRYB331K50
C	3342 (A,56,88)		CKSRYB331K50
C	3343 (A,56,80)		CKSRYB331K50
C	3344 (A,56,94)		CKSRYB331K50
C	3401 (A,40,105)		CKSQYB105K16
C	3402 (A,40,123)		CKSQYB105K16
C	3403 (A,35,114)		CKSRYB104K16
C	3404 (A,39,120)		CKSRYB104K16
C	3411 (A,59,102)		CKSQYB104K50
C	3412 (A,59,116)		CKSQYB104K50
C	3413 (A,59,112)		CKSQYB104K50
C	3414 (A,59,126)		CKSQYB104K50
C	3415 (A,65,106)		CKSRYB333K50
C	3416 (A,65,120)		CKSRYB333K50
C	3417 (A,65,108)		CKSRYB333K50
C	3418 (A,65,122)		CKSRYB333K50
C	3421 (A,91,125)	ELECT. CAPACITOR	CEAT102M25
C	3423 (A,86,103)		CKSRYB103K50
C	3424 (A,86,120)		CKSRYB103K50
C	3425 (A,86,114)		CKSRYB102K50
C	3426 (A,86,131)		CKSRYB102K50
C	3427 (A,49,105)		CKSRYB104K25
C	3428 (A,49,124)		CKSRYB104K25
C	3431 (A,85,111)		CFTLA474J50
C	3432 (A,85,128)		CFTLA474J50
C	3433 (A,102,113)		CKSRYB104K25
C	3434 (A,107,107)		CKSRYB104K25
C	3435 (A,102,111)		CKSRYB104K25
C	3436 (A,107,110)		CKSRYB104K25
C	3437 (A,101,126)		CKSRYB103K50
C	3438 (A,107,126)		CKSRYB103K50
C	3439 (A,104,126)		CKSRYB103K50
C	3440 (A,110,126)		CKSRYB103K50
C	3441 (A,56,104)		CKSRYB331K50
C	3442 (A,56,118)		CKSRYB331K50
C	3443 (A,56,110)		CKSRYB331K50
C	3444 (A,56,124)		CKSRYB331K50
C	3601 (A,87,16)		CCSRCH821J50
C	3602 (A,107,16)		CCSRCH821J50
C	3603 (A,87,13)		CCSRCH821J50
C	3604 (A,107,13)		CCSRCH821J50
C	3605 (A,89,18)		CCSRCH331J50
C	3606 (A,105,18)		CCSRCH331J50
C	3607 (A,87,14)		CCSRCH331J50
C	3608 (A,107,14)		CCSRCH331J50
C	3609 (A,87,22)		CEVW100M16
C	3610 (A,108,22)		CEVW100M16
C	3611 (A,92,25)		CCSRCH821J50
C	3612 (A,102,25)		CCSRCH821J50
C	3621 (A,105,9)		CEVW100M25
C	3622 (A,97,8)		CEVW100M16
C	3623 (A,99,11)		CKSRYB104K25
C	3624 (A,96,11)		CKSRYB104K16
C	3901 (A,13,35)		CCSRCH681J50
C	3902 (A,9,35)		CCSRCH681J50
C	3903 (A,13,36)		CCSRCH681J50
C	3904 (A,9,36)		CCSRCH681J50
C	3905 (A,16,33)		CCSRCH181J50
C	3906 (A,6,33)		CCSRCH181J50
C	3907 (A,13,33)		CCSRCH561J50
C	3908 (A,9,33)		CCSRCH561J50
C	3921 (A,8,18)		CEVW100M25
C	3922 (A,14,18)		CEVW100M16
C	3923 (A,9,24)		CKSRYB104K25
C	3924 (A,15,24)		CKSRYB104K16

D DISPLAY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	5901 (B,141,42)	FL DRIVER IC	PT6315
IC	5902 (A,179,44)	REMOTE RECEIVER UNIT	GP1UM27XK0VF
⚠ L	5901 (A,168,42)	AXIAL INDUCTOR	LAU220J
L	5902 (A,117,50)	AXIAL INDUCTOR	LAU100J
V	5901 (A,168,55)	FL TUBE	AAV7104
S	5962 (A,75,30)	SWITCH	VSG1024
S	5963 (A,93,30)	SWITCH	VSG1024
S	5964 (A,106,30)	SWITCH	VSG1024
S	5965 (A,124,30)	SWITCH	VSG1024
S	5966 (A,147,30)	SWITCH	VSG1024
S	5967 (A,165,30)	SWITCH	VSG1024
CN	5901 (A,112,65)	CONNECTOR	CKS3378
	5971	FL SPACER	AEB7367

RESISTORS

Mark	No.	Description	Part No.
R	5901 (B,161,35)		RS1/16S221J
R	5902 (B,157,35)		RS1/16S221J
R	5903 (B,159,35)		RS1/16S221J
R	5904 (B,152,36)		RS1/16S823J
R	5951 (B,173,47)		RS1/16S470J
R	5954 (B,183,42)		RS1/16S101J
R	5962 (B,80,32)		RS1/16S102J
R	5963 (B,82,32)		RS1/16S122J
R	5964 (B,118,30)		RS1/16S152J
R	5965 (B,120,30)		RS1/16S182J
R	5966 (B,170,28)		RS1/16S102J

CAPACITORS

Mark	No.	Description	Part No.
C	5907 (A,67,59)	ELECT. CAPACITOR	CEJQ470M35
C	5911 (B,165,40)		CKSRYB223K50
C	5912 (B,159,41)		CKSRYB223K50
C	5913 (A,162,42)		CEAL470M6R3
C	5915 (B,135,32)		CKSRYB103K50
C	5916 (B,114,47)		CKSRYB223K50
C	5917 (B,127,44)		CKSRYB223K50
C	5918 (A,123,42)	ELECTR. CAPACITOR	CEAL470M35
C	5920 (B,155,35)		CCSRCH221J50

Mark	No.	Description	Part No.
	C 5921	(B,153,31)	CCSRCH221J50
	C 5922	(B,155,31)	CCSRCH221J50
A	C 5951	(B,183,49)	CKSRYB223K50
	C 5952	(A,172,50)	CEAL470M6R3

E USB ASSY

MISCELLANEOUS

	Q 5971	(B,48,53) DIGITAL TR(SC-70)	RT1P241M
	Q 5973	(B,44,45) TRANSISTOR	IMX9
	Q 5974	(B,45,36) TRANSISTOR	IMX9
	D 601	(B,28,27) ZENER DIODE	UMZU6.2N
	L 5971	(B,50,32) INDUCTOR	CTF1306
B	L 5972	(B,41,32) INDUCTOR	CTF1306
	JA 602	(A,19,7) USB CONNECTOR	XKP3086
	JA 5901	(A,49,9) JACK	AKN7003
	CN 5906	(A,46,60) CONNECTOR	CKS3380
	CN 5907	(A,23,60) CONNECTOR	CKS3370

RESISTORS

	R 5971	(B,49,45)	RS1/10S680J
	R 5972	(B,39,45)	RS1/10S680J
	R 5973	(B,52,45)	RS1/10S680J
	R 5974	(B,41,45)	RS1/10S680J
	R 5975	(B,54,44)	RS1/16S222J
C	R 5976	(B,37,41)	RS1/16S222J
	R 5977	(B,54,40)	RS1/16S222J
	R 5978	(B,37,37)	RS1/16S222J
	R 5979	(B,49,40)	RS1/10S680J
	R 5980	(B,39,40)	RS1/10S680J
	R 5981	(B,52,40)	RS1/10S680J
	R 5982	(B,41,40)	RS1/10S680J
	R 5983	(B,52,36)	RS1/16S680J
	R 5984	(B,39,36)	RS1/16S680J
	R 5985	(B,50,36)	RS1/16S680J
D	R 5986	(B,41,36)	RS1/16S680J
	R 5990	(B,39,32)	RS1/16S680J

CAPACITORS

	C 601	(B,31,50)	CKSRYB104K50
	C 602	(A,30,46)	CEAT221M6R3
	C 604	(B,29,23)	CKSRYB104K50
	C 605	(B,29,19)	CKSRYB104K50
	C 5971	(B,47,40)	CKSRYB102K50
	C 5972	(B,43,40)	CKSRYB102K50
	C 5973	(B,48,30)	CKSRYB473K25
	C 5974	(B,43,30)	CKSRYB473K25
E	C 5977	(B,54,24)	CKSRYB103K50

F LED ASSY

MISCELLANEOUS

	Q 5611	(B,100,19) TRANSISTOR	2SC4081
	D 5611	(A,98,15) LED(BLUE)	NSPB320BS-6734
	D 5612	(B,95,20) DIODE	DAN217
	CN 5603	(A,121,20) CONNECTOR	CKS3368

RESISTORS

	R 5611	(B,112,20)	RS1/16S471J
F	R 5612	(B,110,20)	RS1/16S471J
	R 5613	(B,106,15)	RS1/16S472J
	R 5614	(B,105,20)	RS1/16S151J

Mark	No.	Description	Part No.

CAPACITORS

	C 5611	(B,92,15)	CKSRYB104K50

G KEY ASSY

MISCELLANEOUS

	S 5991	(A,205,29) SWITCH	VSG1024
	S 5992	(A,204,55) SWITCH	VSG1024
	S 5993	(A,204,68) SWITCH	VSG1024
	S 5994	(A,204,91) SWITCH	VSG1024
	CN 5908	(A,213,36) CONNECTOR	CKS3370
	CN 5909	(A,213,92) CONNECTOR	CKS3368

RESISTORS

	R 5991	(B,202,60)	RS1/16S272J
	R 5992	(B,202,64)	RS1/16S332J
	R 5993	(B,202,79)	RS1/16S562J

J POWER SUPPLY UNIT

POWER SUPPLY UNIT has no service parts.

K FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.